



ECMA/TC38-TG3/2015/026 (Rev. 1 – 15 April 2015)

Annex B2 - Product environmental attributes Notebooks and Tablets

The declaration may be published only when all rows and/or fields marked with * are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

Brand *	Lenovo	Logo			
Company name *	Lenovo				
Contact information * e-mail address	Lenovo Global Environmental Affairs Alvin L Carter alcarter@lenovo.com	Lenovo			
Internet site *	http://www.lenovo.com/social_responsibility/us/en/environment	.html			
Additional information	The latest version of this document can be found at:				
	http://www.lenovo.com/ecodeclaration				

The company declares (based on product specification or test results based obtained from sample testing), that the product					
conforms to the statemen	nts given in this declaration.				
Type of product *	Notebook				
Commercial name *	Lenovo V14 G3 ABA				
Model number *	82TU				
Issue date *	2022-3-8				
Intended market *	☐ Global ☐ Europe ☐ Asia, Pacific & Japan ☐ Americas ☐ Other				
Additional information					

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

About Annex B2

Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template:

P4.1 – P4.3 Consumable materials

P9.1 TEC and Print speed

P10.2 - P10.3 Chemical emissions from printing products

P11.1 - P11.3 Consumable materials for printing products

Model number *		82TU	Logo	Long	N/C	
Issue date) *	2022-3-8		Lend	JVC) _{TM}
Product	environ	mental attributes - Legal requirements		Require	ment	met
Item				Yes	No	n.a.
P1		us substances and preparations				
P1.1*	Products	do comply with current European RoHS Directive. (See legal reference and NOTE	B1)			
P1.2*		e do not contain Asbestos (see legal reference). nt: Legal reference has no maximum concentration value.				
P1.3*		do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC),		X		
	hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.					
P1.4*	terpheny	s do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polych l (PCT) in preparations (see legal reference).				
P1.5*		edo not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 cart ntaining at least 48% per mass of chlorine in the SCCP (see legal reference).	oon atoms in t			
P1.6*	(see lega	h direct and prolonged skin contact do not release nickel in concentrations above 0 al reference). nt: Max limit in legal reference when tested according to EN1811:2011-5.	,5 μg/cm²/wee	ek 🔀		
P1.7*		Article 33 information about substances in articles is available at (add URL or mail	contact):			
	https://w	www.lenovo.com/us/en/Lenovo-REACH-SVHC-Disclosure	,			
P2	Batteries					
P2.1*		duct contains a battery or an accumulator, the battery/accumulator is labeled with t	he disposal			
		Information on proper disposal is provided in user manual. (See legal reference)		. =		
P2.2*	reference		iium. (See leg	al 🔀		
P2.3*	Batteries and accumulators are readily removable. (See legal reference)					
P3		nity verification & Eco design (ErP)				
P3.1*	The D	duct is CE-marked to show conformance with applicable legal requirements (see lege eclaration of Conformity can be requested at (add link or e- www.lenovo.com/us/en/compliance/eu-doc for EU	gal reference). mail addres			
	https://v	www.lenovo.com/us/en/compliance/uk-doc for UK				
P3.2*		duct complies with the Eco design requirements for energy-related products,				
	, ,	al reference). I information is;		\boxtimes		
	Required	available at (add URL):			ш	ш
	httns://u	www.lenovo.com/us/en/compliance/eco-declaration				
P5		packaging				
P5.1*		ng and packaging components do not contain more than 0,01% lead, mercury	, cadmium a	nd 🔀	\Box	
	hexavale	ent chromium by weight of these together.				
P5.2*	used (se	kaging materials are marked with abbreviations and numbers indicating the nature α e legal reference).				
P5.3*		luct packaging material is free from ozone depleting substances as specified in the N al reference).	ontreal Proto	col 🔀		
		nt: Legal reference has no maximum concentration values.				
P6	Treatme	nt information				
P6.1*	Informati	on for recyclers/treatment facilities is available (see legal reference).				

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Issue dat		2022-3-8	Logo	Len	OVC)
Product		mental attributes - Market requirements (See General NOTE GN onmental conscious design	below)	Require	ment	met
Item		tory to fill in. Additional information regarding each item may be found under P14.		Yes	No	n.a.
P7		Disassembly, recycling				
P7.1*		t have to be treated separately are easily separable			Ц.	
P7.2*		aterials in covers/housing have no surface coating.		<u> </u>		
P7.3*		arts > 100 g consist of one material or of easily separable materials.				
P7.4*		arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.				
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.				Ц.	
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels). Product lifetime					
P7.7*		g can be done e.g. with processor, memory, cards or drives				
P7.8*		ng can be done using commonly available tools			 	
P7.9	. 0	<u> </u>				
		arts are available after end of production for: 5 years				
P7.10		s available after end of production for: 5 years				
P7.11*		and substance requirements cover/housing material type (e.g. plastics, metal, aluminum):				
F 7.11		type: <i>Plastic: PC+ABS</i> Material type:				
P7.12	Insulatio	n materials of external electrical cables are PVC free.			\boxtimes	
P7.13		n materials of internal electrical cables are PVC free.			\boxtimes	
P7.14	weight (* polyvinyl	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) b 1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in 25% post-consumer recycled content.	e retardants, a	nd		
P7.15	Printed c	ircuit boards, PCBs (without components) are low halogen: all 🔲 PCBs > 25 g 🗀 ed in IEC 61249-2-21. (See 1NOTE B2)	are low halog	en 🗌		
P7.16	Flame re Marking:	tarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:				
P7.17		nemical specifications of flame retardants in printed circuit boards > 25 g (without or PA (additive), TBBPA (reactive) (See NOTE B3), Other: Brominated Epoxy		#.		
	26265-08		, , , ,			
		nemical specifications of flame retardants in printed circuit boards (without compone g ISO 1043-4:	ents) > 25 g		Ш	
P7.18	Alt. 1 Flame r	etarded plastic parts >25g contain the following flame retardant substances	s/preparations	in		
		ations above 0.1%:				
		ent: No legal limits exist, this is a market requirement.				
		ical name: Oligomeric phosphorous compound CAS #: ical name: CAS #:				
		ical name: CAS #:				
	4. Chemi	ical name: , CAS #:				
	Alt. 2				Ш	Ш
	Chemica	I specifications of flame retardants in plastic parts >25g according ISO 1043-4:				
P7.19	In plastic	parts > 25 g, flame retardant substances/preparations above 0,1% are used which	n have been	\square		
	assigned	the following Risk phrases; and Hazard statements: H411;H413				
		ce(s) for these classifications is/are found at (add URL(s)): European Coun	cil Directive			
D7.00*	67/548/E			K 7		
P7.20*		sumer recycled plastic material content is used in the product (See Note B6): t least one of the two alternatives below shall be answered;			Ш	
	a) Of t	t least one of the two atternatives below shall be allowed ed., obtail plastic parts' weight > 25 g, the postconsumer recycled plastic material contenercentage of total plastic by weight) is 7.23% .	t (calculated as	6		
	or .					
	b) The	weight of recycled material is g.				

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

Model number *	82TU	Logo	Lenovo				
Issue date *	2022-3-8		Lei IOVO.				
Product environr		Requirement met					
Item			Yes No na				

P7.21*		stance requirements	(continued) I in the product (See NO	TE D7\:				
P1.21	•			•				
			es below shall be answe					
	 a) Of total plast total plastic l 		the biobased plastic ma	aterial content (calcula	ted as a percentage of			
	or	by weight) is 70.						
		of the biobased plastic material is g.						
P7.22*	Light sources are	free from mercury, i.e.	less than 0,1 mg/lamp.		\square \square			
		I specify: Number of lar	nps: and maximi	um mercury content pe	r lamp: mg			
P8	Batteries			:				
P8.1*			olymer battery and lith	ium-metai battery				
P9		otion (See NOTE B8)						
P9.1		Power level	s or energy consumption Power level at	Power level at	Reference/Standard for energy			
Energy mod	ue	100 V AC	115 V AC	230 V AC	Reference/Standard for energy modes and test method *			
Peak (On-r	nax)	65 W	65 W	65 W	Full load			
,								
Category	<u>/ 2</u>							
Short Idle	State - WOL	6.61 W	6.32 W	6.60 W	ENERGY STAR Computers V8			
Enabled					(P _{idle})			
Long Idla	Ctoto IVOI	4.39 W	4.42 W	4.37 W	ENERCY STAR Computers 1/9			
Enabled	State - WOL	4.39 VV	4.42 VV	4.37 VV	ENERGY STAR Computers V8 (P _{idle})			
Litablea					(* Idie)			
Sleep (S3)	- WOL Enabled	0.47 W	0.49 W	0.52 W	ENERGY STAR Computers			
,					V8(P _{sleep})			
Off (\$5) - V	VOL Enabled	0.38 W	0.33 W	0.35 W	ENERGY STAR Computers			
011 (33) - 1	VOL Enabled	0.50 **	0.55 **	0.33 **	V8(P _{off})			
					- (5.9)			
EPS No-loa		0.06 W	0.06 W	0.06 W				
wall outlet but disc	upply / charger plugged in the connected from the product.)							
PTEC *		W	W	W				
ETEC *	ergy Consumption	23.31 kWh/year	22.72 kWh/year	23.54 kWh/year	E = (9760/4000) × /D × 0.25			
	ergy Consumption	23.37 KWII/yeai	ZZ.7Z KVVII/yeai	23.54 KVVII/yeai	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.25 + P_{sleep} \times 0.35 + P_{long_Idle} \times 0.10 +$			
, amaa Ene	ngy concumption				P _{short Idle} x 0.30)			
					ed; Pidle: Idle State - WOL Enabled			
External Po	ower Supply Efficie	ncy Level (International	l Efficiency Marking Pro	tocol) *: V/				
Display res	olution * : 2.07 meç	gapixels						
Default time	e to enter energy s	ave mode: 10 minutes						
P9.2*	Information about	the energy save function	on is provided with the	product.				
P9.3		class (monitors only):	. '	:				
P10	Emissions	, ,,						
		- Declared according to	ISO 9296 (See NOTE	B9)				
				t A-weighted sound power level, L _{WA,c} (B)				
	Idle	* Idle (Operating)		* 2.6				
	Operation	* HDD:Operation		* 2.4				
		CPU:Operation		4.3				
		Declared A-weighted soun		19.2 (operator posit	ion desktop – idle)			
	Other mode	Declared A-weighted soun	d pressure level (dB) $L_{p{\sf Am}}$	34.8 (operator posit	ion desktop – operating)			
	Measured accord	ing to: X ISO 7779	ECMA-74	1				
	5454154 400014	Other	(only if not covered by	FCMA-74)				
	Other (only if not covered by Edwa-14)							

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B9 A Guidance document on Acoustic Noise is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

Model nur	nber *	82TU				Logo	П			
Issue date	*	2022-3-8					Le	no	VO.	
Product	environr	nental attributes	- Market requirem	nents (cor	ntinued)		Red	quirer	nent	met
Item			•	,	•			Yes	No	n.a.
	Electron	magnetic emissions	3							
P10.4	program	(s): MPR-II(3 pin AC	adapter only)	requency e	lectromagnetic field	ls of the following volu	ıntary			
P12		mics for computing								
P12.1*			omic requirements of		· · · · · · · · · · · · · · · · · · ·			\boxtimes		
P12.2*	The phys	sical input device me	ets the requirements	of ISO 999	95 and ISO 9241-41	10.		\boxtimes		
P13		ng and documenta								
P13.1*	Product Product Product Product	packaging material t packaging material t packaging material t	ype(s): <i>EPE</i> ype(s): <i>PP</i> weight (k ype(s): <i>PE</i> weight (k	weight (kg weight (kg (g): 0.0046	j): 0.039 j): 0.069					
P13.2*			aging is free from PV	C.				X		
P13.3*	consume	er recovered fiber co	ntent: 80 %			percentage of minimu	um post-			
P13.4*		media for user and pic $oxtimes$, Paper $oxtimes$, O	roduct documentatio	n (tick box):						
P13.5	Ùser and		em if paper documen ation on paper media							
	,	hlorine-free						\boxtimes		
		al chlorine-free						\boxtimes		
		ed chlorine-free								
P14		ry programs								
P14.1	The prod	duct meets the requi	rements of the follow	ing voluntar	y program(s):					
		Y STAR® el: <i>EPEAT</i> el:	Criteria version: 8.0 Criteria version: 160 Criteria version:		Date: 2020/7/15 Date: 2018/2 Date:	Product category: 2 Product category: Product category:				
P15	Addition	nal information (Se				3 /				
P9				may vary;	description of the	tested product con	figuration:			
	NOTE: S informati knowled provided informati	Supplier makes no re ion contained in this ge available at the ti I here is approximate ion.	presentations, guara document. All inform me of completion, an e and provided for info	intees, assu ation provid d supplier s ormational	rrances or warrantic led by supplier in th hall have no obliga ourposes only. See	es whether express or nis document is provid tion to update such in a Lenovo Account Re	implied, requestion in the contraction in the contr	n supp he info	lier's ormati	on
P9	See Ene	ergy Star Qualified N wnloads.enerhttps://	otebooks & Tablet Co www.energystar.gov/	omputers fo products/of	r the latest informa fice_equipment/cor	tion: nputers				

NOTE B10 Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

Legal references Europe Annex B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive) * * Specific exemptions apply for certain products and applications.	P1.1
Regulation (EC) 1907/2006(REACH, Annex XVII	P1.2, P1.4, P1.6, P1.7
Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)	P1.3, P5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2013/56/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2,3, P8.1
Directive 2006/95/EC (Low Voltage Directive)	P3.1
Directive 2004/108/EC (EMC Directive)	P3.1
Directive 1999/5/EC (R&TTE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Regulation (EC) No 1272/2008 (CLP Regulation)	P7.19
Directive 2004/12/EC (Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive)	P6.1

Lenovo ErP Lot3 Information Sheet - PC / Notebook -

As required by COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers (ErP Lot3).

Products scope of this sheet:

Desktop computer, integrated desktop computer, and notebook computer

This document is only valid in connection with the IT Eco Declaration of the specific Product.

Commercial name	Lenovo V14 G3 ABA	Logo	
Model number *	82TU		Lonovo
Issue date *	2022-3-8		Lenovo.
Additional information			
		•	-

(d)	Year of manufacture:				2022
(e)	Etec value (kWh) per ErP Lot 3 Catego disabled and if the system is tested with				cards (dGfx) are
f)	Etec value (kWh) per ErP Lot 3 Categorenable	y and capability adjust	ments applied when a	all discrete graphics	cards (dGfx) are
		Category A (according to ErP Lot 3)	Category B (according to ErP Lot 3)	Category C (according to ErP Lot 3)	Category D (according to ErP Lot 3)
	Memory over base [GB]	16			
ents	Additional internal storage	Yes (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)
ıdjustm ring tes	Discrete television tuner	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)
capability adjustments applied during testing	Discrete Audio Card	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)
capa	Discrete graphics Card(s) [number / #]	No #: (Yes / No)	#: (Yes / No)	#: (Yes / No)	#: (Yes / No)
	Category of discrete graphics Card(s)	N/A			
sults	Etec Value (kWh) - dGfx disabled all discrete graphics cards (dGfx) are disabled/ UMA is active for switchable graphics/ product has no graphics cards (dGfx)	15.46			
Test results	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled				
g)	Idle state power demand (Watts);			ı	5.00
h)	Sleep mode power demand (Watts);				0.49
i)	Sleep mode with WOL enabled power de	emand (Watts) (where	enabled);		0.49
j)	Off mode power demand (Watts);				0.36
k)	Off mode with WOL enabled power dem	and (Watts) (where en	abled);		0.36
l)	Internal power supply efficiency at 10 %,	, 20 %, 50 % and 100 °	% of rated output pow	er (if applicable):	
	10% 20% 50%	100% Avera	age		
m)	External power supply efficiency (if appli	cable)*:			
	Average active efficiency: 88.20%, 89.3	37%, 89.18%, 90.44%,	89.71%, 90.15%, 90.	02%, 90.44%, 89.71%,	, 90.15%, 90.02%
	*internal note: show values for all available external p	ower supplies			
0)	Minimum number of loading cycles that		tand (applies only to r	otebook computers):	300CYCLES
p-1)	Measurement methodology used to dete	ermine information mer	ntioned in points (I) - in	nternal PSU efficiency:	:
p-2)	Measurement methodology used to dete	ermine information mer		external PSU efficience	cy:

(p-3)	Measurement metho	dology used to determine information mentioned in p EN 50563:2011 measurement methodo				
(p-4)		dology used to determine information mentioned in r Point P9.1 in the Product IT Eco Declaration:	naximum, idle, sleep, off mode			
		EN 62623:2013 measurement methodo	ology			
(q)	Sequence of steps for	or achieving a stable condition with respect to power	demand::			
	EN 62623:2013 measurement methodology					
(r)	Description of how sleep and/or off mode was selected or programmed:					
		EN 62623:2013 measurement methodo	ology			
(s)	Sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode:					
	refe	er to power management, 30mins automatically re	eaches sleep mode			
(t)	condition which does	te condition before the computer automatically researched the applicable power demand requirement	ents for sleep mode (in minutes):	30		
(u)		r a period of user inactivity in which the compute ver power demand requirement than sleep mode (in		NA		
(v)		re the display sleep mode is set to activate after		10		
(w)	Information on the er	nergy-saving potential of power management function	nality:			
	User information	described in User Guide and Power Manager un programs	der Lenovo Vantage menu in all			
(x)		now to enable the power management functionality: lanager under Lenovo Vantage menu in all progra				
(z)	Test parameters for the electricity supply used for electrical test	measurements: — test voltage in V and frequency in system, — information and documentation on the insting:	Hz, — total harmonic distortion of strumentation, set-up and circuits			
		230V, 50GHz, Total Harmonic Distortion	1 <2 %			
Additiona	al Notebook Batter	y Information:				
		Battery[ies] not user replaceable	Battery[ies] user replaceable	n/a		
		The battery[ies] in this product cannot be easily replaced by users themselves. 1)				
Internal/b	uilt-in Battery	\boxtimes				
External/o	detachable Battery					
Bios Back	kup Battery					
Other:						
Additional	l information					
)						

The battery[ies] in this product cannot be easily replaced by users themselves.

Акумулаторната[ите] батерия[и] в този продукт не може да се замени[ят] лесно от самите потребители. Las baterías de este producto no pueden ser sustituidas fácilmente por los propios usuarios. Výměnu baterie/baterií v tomto výrobku by neměli provádět sami uživatelé.

Brugeren kan ikke uden videre udskifte batteriet/batterierne i dette produkt.
Der Akku/die Akkus dieses Produkts kann/können nicht ohne weiteres vom Benutzer selbst ausgetauscht werden.

Kasutajad ei saa selle toote akut/akusid ise hõlpsasti asendada.

Η μπαταρία[-ες] στο προϊόν αυτό δεν μπορούν να αντικατασταθούν εύκολα από τους ίδιους τους χρήστες La/les batterie(s présente(s) dans ce produit ne peuvent être facilement remplacée(s) par les utilisateurs eux-mêmes.

Korisnik ne može lako zamijeniti Bateriju sam u ovom proizvodu.

La batteria/le batterie in questo prodotto non può/possono essere facilmente sostituita/e dall'utente. Lietotăji paši nevar nomainīt šā ražojuma akumulatoru(-us).

Šio gaminio baterijos [baterijų] pats vartotojas negali lengvai pakeisti.

A termék akkumulátorát/akkumulátorait a felhasználó nem tudja egyedül egyszerűen kicserélni. Il-batterija/batteriji f'dan il-prodott ma tistax/jistgħux tiġi/jiġu sostitwita/i mill-utenti stess. Batteriet [ene] i dette produktet kan ikke lett erstattes av brukerne selv.

De batterij(en) in dit product is (zijn) door de gebruiker niet gemakkelijk vervangbaar.
Użytkownik nie może sam w łatwy sposób wymienić baterii w tym produkcie.
A ou as baterias deste produto não podem ser facilmente substituídas pelos próprios utilizadores.

Bateria (bateriile) din acest produs nu poate (pot) fi uşor înlocuită (înlocuite) de utilizatorii înșiși. Batériu(-ie) v tomto výrobku nemôže vymieňať používateľ. Baterij/baterije v tem izdelku uporabniki sami ne morejo zlahka zamenjati.

Tämän tuotteen akku [akut] ei[vät] ole helposti käyttäjän vaihdettavissa. Det är inte enkelt för kunden att själv byta ut batteriet/batterierna.

Bu üründeki batarya(lar) kullanıcılar tarafından kolaylıkla değiştirilemez.