

Phthalic acid, 2-(4-bromophenoxy)ethyl hexyl ester

Inchi:	InChI=1S/C22H25BrO5/c1-2-3-4-7-14-27-21(24)19-8-5-6-9-20(19)22(25)28-16-15-26-18
InchiKey:	DBKWQDKWQERSXNJ-UHFFFAOYSA-N
Formula:	C22H25BrO5
SMILES:	CCCCCOC(=O)c1cccc1C(=O)OCCOc1ccc(Br)cc1
Mol. weight [g/mol]:	449.33

Physical Properties

Property code	Value	Unit	Source
gf	-218.60	kJ/mol	Joback Method
hf	-642.78	kJ/mol	Joback Method
hfus	52.09	kJ/mol	Joback Method
hvap	97.60	kJ/mol	Joback Method
log10ws	-6.98		Crippen Method
logp	5.422		Crippen Method
mvol	311.570	ml/mol	McGowan Method
pc	1533.06	kPa	Joback Method
rinpol	3032.00		NIST Webbook
rinpol	3032.00		NIST Webbook
tb	1007.24	K	Joback Method
tc	1241.38	K	Joback Method
tf	641.93	K	Joback Method
vc	1.179	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	956.06	J/molxK	1007.24	Joback Method
cpg	967.35	J/molxK	1046.26	Joback Method
cpg	977.18	J/molxK	1085.29	Joback Method
cpg	985.59	J/molxK	1124.31	Joback Method
cpg	992.62	J/molxK	1163.33	Joback Method
cpg	998.31	J/molxK	1202.35	Joback Method
cpg	1002.68	J/molxK	1241.38	Joback Method
dvisc	0.0001780	Paxs	641.93	Joback Method

dvisc	0.0001111	Paxs	702.82	Joback Method
dvisc	0.0000748	Paxs	763.70	Joback Method
dvisc	0.0000534	Paxs	824.59	Joback Method
dvisc	0.0000399	Paxs	885.47	Joback Method
dvisc	0.0000310	Paxs	946.36	Joback Method
dvisc	0.0000248	Paxs	1007.24	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U382895&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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