

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

Inchi:	InChI=1S/C23H27BrO5/c1-2-3-4-5-8-15-28-22(25)20-9-6-7-10-21(20)23(26)29-17-16-27
InchiKey:	SMNPUFHCQOHCRU-UHFFFAOYSA-N
Formula:	C23H27BrO5
SMILES:	CCCCCCCOC(=O)c1ccccc1C(=O)OCCOc1ccc(Br)cc1
Mol. weight [g/mol]:	463.36

Physical Properties

Property code	Value	Unit	Source
gf	-210.18	kJ/mol	Joback Method
hf	-663.42	kJ/mol	Joback Method
hfus	54.68	kJ/mol	Joback Method
hvap	99.83	kJ/mol	Joback Method
log10ws	-7.40		Crippen Method
logp	5.812		Crippen Method
mvol	325.660	ml/mol	McGowan Method
pc	1423.99	kPa	Joback Method
rinpol	3133.00		NIST Webbook
rinpol	3133.00		NIST Webbook
tb	1030.12	K	Joback Method
tc	1265.79	K	Joback Method
tf	653.20	K	Joback Method
vc	1.236	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1015.09	J/molxK	1030.12	Joback Method
cpg	1026.37	J/molxK	1069.40	Joback Method
cpg	1036.15	J/molxK	1108.68	Joback Method
cpg	1044.47	J/molxK	1147.96	Joback Method
cpg	1051.37	J/molxK	1187.24	Joback Method
cpg	1056.90	J/molxK	1226.51	Joback Method
cpg	1061.09	J/molxK	1265.79	Joback Method
dvisc	0.0001582	Paxs	653.20	Joback Method

dvisc	0.0000977	Paxs	716.02	Joback Method
dvisc	0.0000653	Paxs	778.84	Joback Method
dvisc	0.0000463	Paxs	841.66	Joback Method
dvisc	0.0000344	Paxs	904.48	Joback Method
dvisc	0.0000266	Paxs	967.30	Joback Method
dvisc	0.0000212	Paxs	1030.12	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U382896&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	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:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	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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