

Phthalic acid, 5-bromo-2-methoxybenzyl hexyl ester

Inchi:	InChI=1S/C22H25BrO5/c1-3-4-5-8-13-27-21(24)18-9-6-7-10-19(18)22(25)28-15-16-14-1
InchiKey:	YUYLWQZNHNXRAO-UHFFFAOYSA-N
Formula:	C22H25BrO5
SMILES:	CCCCCOC(=O)c1ccccc1C(=O)OCc1cc(Br)ccc1OC
Mol. weight [g/mol]:	449.33

Physical Properties

Property code	Value	Unit	Source
gf	-228.23	kJ/mol	Joback Method
hf	-654.25	kJ/mol	Joback Method
hfus	51.70	kJ/mol	Joback Method
hvap	98.26	kJ/mol	Joback Method
log10ws	-7.44		Crippen Method
logp	5.552		Crippen Method
mcvol	311.570	ml/mol	McGowan Method
pc	1515.21	kPa	Joback Method
rinpol	2997.00		NIST Webbook
rinpol	2997.00		NIST Webbook
tb	1012.22	K	Joback Method
tc	1247.22	K	Joback Method
tf	654.45	K	Joback Method
vc	1.179	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	954.54	J/molxK	1012.22	Joback Method
cpg	965.65	J/molxK	1051.39	Joback Method
cpg	975.26	J/molxK	1090.55	Joback Method
cpg	983.41	J/molxK	1129.72	Joback Method
cpg	990.11	J/molxK	1168.89	Joback Method
cpg	995.41	J/molxK	1208.06	Joback Method
cpg	999.32	J/molxK	1247.22	Joback Method
dvisc	0.0001629	Paxs	654.45	Joback Method

dvisc	0.0001051	Paxs	714.08	Joback Method
dvisc	0.0000725	Paxs	773.71	Joback Method
dvisc	0.0000527	Paxs	833.34	Joback Method
dvisc	0.0000400	Paxs	892.96	Joback Method
dvisc	0.0000315	Paxs	952.59	Joback Method
dvisc	0.0000254	Paxs	1012.22	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=U382868&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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