

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

Inchi:	InChI=1S/C24H29BrO5/c1-3-4-5-6-7-10-15-29-23(26)20-11-8-9-12-21(20)24(27)30-17-1
InchiKey:	PYFVECPFQUUPER-UHFFFAOYSA-N
Formula:	C24H29BrO5
SMILES:	CCCCCCCCOC(=O)c1cccc1C(=O)OCc1cc(Br)ccc1OC
Mol. weight [g/mol]:	477.39

Physical Properties

Property code	Value	Unit	Source
gf	-211.39	kJ/mol	Joback Method
hf	-695.53	kJ/mol	Joback Method
hfus	56.88	kJ/mol	Joback Method
hvap	102.71	kJ/mol	Joback Method
log10ws	-8.28		Crippen Method
logp	6.332		Crippen Method
mvol	339.750	ml/mol	McGowan Method
pc	1311.80	kPa	Joback Method
rinpol	3193.00		NIST Webbook
rinpol	3193.00		NIST Webbook
tb	1057.98	K	Joback Method
tc	1297.15	K	Joback Method
tf	676.99	K	Joback Method
vc	1.292	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1072.97	J/molxK	1057.98	Joback Method
cpg	1084.02	J/molxK	1097.84	Joback Method
cpg	1093.46	J/molxK	1137.70	Joback Method
cpg	1101.32	J/molxK	1177.57	Joback Method
cpg	1107.65	J/molxK	1217.43	Joback Method
cpg	1112.49	J/molxK	1257.29	Joback Method
cpg	1115.87	J/molxK	1297.15	Joback Method
dvisc	0.0001289	Paxs	676.99	Joback Method

dvisc	0.0000814	Paxs	740.49	Joback Method
dvisc	0.0000553	Paxs	803.99	Joback Method
dvisc	0.0000398	Paxs	867.49	Joback Method
dvisc	0.0000299	Paxs	930.98	Joback Method
dvisc	0.0000233	Paxs	994.48	Joback Method
dvisc	0.0000187	Paxs	1057.98	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U382870&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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