

Diglycolic acid, 4-bromophenyl octyl ester

Inchi:	InChI=1S/C18H25BrO5/c1-2-3-4-5-6-7-12-23-17(20)13-22-14-18(21)24-16-10-8-15(19)9
InchiKey:	ASBBAPAXLKSLJE-UHFFFAOYSA-N
Formula:	C18H25BrO5
SMILES:	CCCCCCCCOC(=O)COCC(=O)Oc1ccc(Br)cc1
Mol. weight [g/mol]:	401.29

Physical Properties

Property code	Value	Unit	Source
gf	-355.06	kJ/mol	Joback Method
hf	-785.28	kJ/mol	Joback Method
hfus	48.07	kJ/mol	Joback Method
hvap	85.76	kJ/mol	Joback Method
log10ws	-5.08		Crippen Method
logp	4.275		Crippen Method
mcvol	278.970	ml/mol	McGowan Method
pc	1618.07	kPa	Joback Method
rinpola	3273.00		NIST Webbook
rinpola	3273.00		NIST Webbook
tb	884.06	K	Joback Method
tc	1095.00	K	Joback Method
tf	557.91	K	Joback Method
vc	1.063	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	828.89	J/molxK	884.06	Joback Method
cpg	884.90	J/molxK	1059.85	Joback Method
cpg	875.96	J/molxK	1024.69	Joback Method
cpg	865.90	J/molxK	989.53	Joback Method
cpg	854.71	J/molxK	954.37	Joback Method
cpg	842.38	J/molxK	919.22	Joback Method
cpg	892.74	J/molxK	1095.00	Joback Method
dvisc	0.0000429	Paxs	884.06	Joback Method

dvisc	0.0000541	Paxs	829.70	Joback Method
dvisc	0.0000705	Paxs	775.34	Joback Method
dvisc	0.0000957	Paxs	720.98	Joback Method
dvisc	0.0001363	Paxs	666.63	Joback Method
dvisc	0.0002068	Paxs	612.27	Joback Method
dvisc	0.0003404	Paxs	557.91	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U381900&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

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{pol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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