

Glutaric acid, di(8-bromooctyl) ester

Inchi:	InChI=1S/C21H38Br2O4/c22-16-9-5-1-3-7-11-18-26-20(24)14-13-15-21(25)27-19-12-8-4
InchiKey:	VOONSKXYGYGGU-UHFFFAOYSA-N
Formula:	C21H38Br2O4
SMILES:	O=C(CCCC(=O)OCCCCCCCCBr)OCCCCCCCCBr
Mol. weight [g/mol]:	514.33

Physical Properties

Property code	Value	Unit	Source
gf	-313.26	kJ/mol	Joback Method
hf	-913.71	kJ/mol	Joback Method
hfus	66.29	kJ/mol	Joback Method
hvap	93.52	kJ/mol	Joback Method
log10ws	-7.20		Crippen Method
logp	6.714		Crippen Method
mvol	356.630	ml/mol	McGowan Method
pc	1108.15	kPa	Joback Method
rinpol	3356.00		NIST Webbook
tb	964.78	K	Joback Method
tc	1181.40	K	Joback Method
tf	590.35	K	Joback Method
vc	1.383	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1120.32	J/molxK	964.78	Joback Method
cpg	1136.30	J/molxK	1000.88	Joback Method
cpg	1151.07	J/molxK	1036.99	Joback Method
cpg	1164.68	J/molxK	1073.09	Joback Method
cpg	1177.18	J/molxK	1109.19	Joback Method
cpg	1188.63	J/molxK	1145.30	Joback Method
cpg	1199.07	J/molxK	1181.40	Joback Method
dvisc	0.0002746	Paxs	590.35	Joback Method
dvisc	0.0001534	Paxs	652.75	Joback Method

dvisc	0.0000949	Paxs	715.16	Joback Method
dvisc	0.0000634	Paxs	777.57	Joback Method
dvisc	0.0000450	Paxs	839.97	Joback Method
dvisc	0.0000335	Paxs	902.38	Joback Method
dvisc	0.0000259	Paxs	964.78	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U377244&Units=SI

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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