Glutaric acid, butyl 2,4-dichloronaphthyl ester

Inchi: InChI=1S/C19H20Cl2O4/c1-2-3-11-24-17(22)9-6-10-18(23)25-19-14-8-5-4-7-13(14)15(20
InchiKey: LWBISMRTRYZLPU-UHFFFAOYSA-N
Formula: C19H20Cl2O4
SMILES: CCCCOC(=O)CCCC(=O)Oc1c(Cl)cc(Cl)c2ccccc12
Mol. weight [g/mol]: 383.27

Physical Properties

Property code	Value	Unit	Source
gf	-192.43	kJ/mol	Joback Method
hf	-563.38	kJ/mol	Joback Method
hfus	48.83	kJ/mol	Joback Method
hvap	90.87	kJ/mol	Joback Method
log10ws	-6.75		Crippen Method
logp	5.566		Crippen Method
mcvol	274.710	ml/mol	McGowan Method
pc	1609.00	kPa	Joback Method
rinpol	2895.00		NIST Webbook
rinpol	2895.00		NIST Webbook
tb	922.16	K	Joback Method
tc	1146.56	K	Joback Method
tf	604.73	K	Joback Method
vc	1.060	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	789.19	J/mol×K	922.16	Joback Method
cpg	801.04	J/mol×K	959.56	Joback Method
cpg	811.87	J/mol×K	996.96	Joback Method
cpg	821.73	J/mol×K	1034.36	Joback Method
cpg	830.65	J/mol×K	1071.76	Joback Method
cpg	838.69	J/mol×K	1109.16	Joback Method
cpg	845.89	J/mol×K	1146.56	Joback Method
dvisc	0.0004756	Pa×s	604.73	Joback Method

dvisc	0.0003294	Pa×s	657.63	Joback Method
dvisc	0.0002410	Pa×s	710.54	Joback Method
dvisc	0.0001841	Pa×s	763.45	Joback Method
dvisc	0.0001456	Pa×s	816.35	Joback Method
dvisc	0.0001185	Pa×s	869.26	Joback Method
dvisc	0.0000988	Pa×s	922.16	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U358923&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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