Glutaric acid, di((2-chlorocyclohexyl)methyl) ester

Inchi: InChI=1S/C19H30Cl2O4/c20-16-8-3-1-6-14(16)12-24-18(22)10-5-11-19(23)25-13-15-7-2

InchiKey: GEHMIUGYRSJLQN-UHFFFAOYSA-N

Formula: C19H30Cl2O4

SMILES: O=C(CCCC(=O)OCC1CCCCC1Cl)OCC1CCCCC1Cl

Mol. weight [g/mol]: 393.35

Physical Properties

Property code	Value	Unit	Source
gf	-349.12	kJ/mol	Joback Method
hf	-888.61	kJ/mol	Joback Method
hfus	44.75	kJ/mol	Joback Method
hvap	85.21	kJ/mol	Joback Method
log10ws	-5.34		Crippen Method
logp	4.838		Crippen Method
mcvol	296.210	ml/mol	McGowan Method
pc	1392.29	kPa	Joback Method
rinpol	2952.00		NIST Webbook
rinpol	2952.00		NIST Webbook
tb	891.32	K	Joback Method
tc	1113.78	K	Joback Method
tf	514.33	K	Joback Method
vc	1.109	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	968.89	J/mol×K	891.32	Joback Method
cpg	1037.76	J/mol×K	1076.70	Joback Method
cpg	1027.49	J/mol×K	1039.62	Joback Method
cpg	1015.49	J/mol×K	1002.55	Joback Method
cpg	1001.74	J/mol×K	965.47	Joback Method
cpg	986.21	J/mol×K	928.40	Joback Method
cpg	1046.32	J/mol×K	1113.78	Joback Method
dvisc	0.0000817	Pa×s	891.32	Joback Method

dvisc	0.0001048	Pa×s	828.49	Joback Method
dvisc	0.0001401	Pa×s	765.66	Joback Method
dvisc	0.0001973	Pa×s	702.82	Joback Method
dvisc	0.0002972	Pa×s	639.99	Joback Method
dvisc	0.0004893	Pa×s	577.16	Joback Method
dvisc	0.0009101	Pa×s	514.33	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U405453&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