

Glutaric acid, cyclohexylmethyl 2-methylhex-3-yl ester

Inchi:	InChI=1S/C19H34O4/c1-4-9-17(15(2)3)23-19(21)13-8-12-18(20)22-14-16-10-6-5-7-11-16
InchiKey:	ASKZOIGTILEXPG-UHFFFAOYSA-N
Formula:	C19H34O4
SMILES:	CCCC(OC(=O)CCCC(=O)OCC1CCCCC1)C(C)C
Mol. weight [g/mol]:	326.47

Physical Properties

Property code	Value	Unit	Source
gf	-339.17	kJ/mol	Joback Method
hf	-881.33	kJ/mol	Joback Method
hfus	35.33	kJ/mol	Joback Method
hvap	75.85	kJ/mol	Joback Method
log10ws	-5.02		Crippen Method
logp	4.648		Crippen Method
mvol	282.590	ml/mol	McGowan Method
pc	1342.74	kPa	Joback Method
rinpol	2179.00		NIST Webbook
rinpol	2179.00		NIST Webbook
tb	805.37	K	Joback Method
tc	1004.36	K	Joback Method
tf	425.59	K	Joback Method
vc	1.069	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	906.75	J/molxK	805.37	Joback Method
cpg	925.89	J/molxK	838.54	Joback Method
cpg	943.73	J/molxK	871.70	Joback Method
cpg	960.27	J/molxK	904.87	Joback Method
cpg	975.54	J/molxK	938.03	Joback Method
cpg	989.57	J/molxK	971.20	Joback Method
cpg	1002.36	J/molxK	1004.36	Joback Method
dvisc	0.0015521	Paxs	425.59	Joback Method

dvisc	0.0006163	Paxs	488.89	Joback Method
dvisc	0.0003025	Paxs	552.18	Joback Method
dvisc	0.0001718	Paxs	615.48	Joback Method
dvisc	0.0001085	Paxs	678.78	Joback Method
dvisc	0.0000741	Paxs	742.07	Joback Method
dvisc	0.0000537	Paxs	805.37	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U393734&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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