

Glutaric acid, 2-chloropropyl octadecyl ester

Inchi: InChI=1S/C26H49ClO4/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-22-30-25(28)20-19
InchiKey: YABDUHRZHHJTHNY-UHFFFAOYSA-N
Formula: C26H49ClO4
SMILES: CCCCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OCC(C)Cl
Mol. weight [g/mol]: 461.12

Physical Properties

Property code	Value	Unit	Source
gf	-314.17	kJ/mol	Joback Method
hf	-1090.59	kJ/mol	Joback Method
hfus	69.34	kJ/mol	Joback Method
hvap	95.78	kJ/mol	Joback Method
log10ws	-8.70		Crippen Method
logp	8.132		Crippen Method
mcvol	404.320	ml/mol	McGowan Method
pc	750.20	kPa	Joback Method
rinpol	3235.00		NIST Webbook
tb	983.85	K	Joback Method
tc	1213.81	K	Joback Method
tf	542.02	K	Joback Method
vc	1.583	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1375.79	J/mol×K	983.85	Joback Method
cpg	1459.77	J/mol×K	1175.48	Joback Method
cpg	1446.29	J/mol×K	1137.15	Joback Method
cpg	1431.22	J/mol×K	1098.83	Joback Method
cpg	1414.48	J/mol×K	1060.50	Joback Method
cpg	1396.03	J/mol×K	1022.18	Joback Method
cpg	1471.71	J/mol×K	1213.81	Joback Method
dvisc	0.0000164	Pa×s	983.85	Joback Method
dvisc	0.0000222	Pa×s	910.21	Joback Method

dvisc	0.0000318	Pa×s	836.57	Joback Method
dvisc	0.0000487	Pa×s	762.93	Joback Method
dvisc	0.0000819	Pa×s	689.30	Joback Method
dvisc	0.0001557	Pa×s	615.66	Joback Method
dvisc	0.0003526	Pa×s	542.02	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U359506&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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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