Glutaric acid, cyclopentyl 3-chlorophenyl ester

Inchi: InChI=1S/C16H19ClO4/c17-12-5-3-8-14(11-12)21-16(19)10-4-9-15(18)20-13-6-1-2-7-13/
InchiKey: IOVXNILXMLJCRA-UHFFFAOYSA-N
Formula: C16H19ClO4
SMILES: O=C(CCCC(=O)OC1CCCC1)Oc1cccc(Cl)c1
Mol. weight [g/mol]: 310.77

Physical Properties

Property code	Value	Unit	Source
gf	-256.60	kJ/mol	Joback Method
hf	-593.37	kJ/mol	Joback Method
hfus	34.55	kJ/mol	Joback Method
hvap	77.10	kJ/mol	Joback Method
log10ws	-4.69		Crippen Method
logp	3.901		Crippen Method
mcvol	228.800	ml/mol	McGowan Method
pc	2060.49	kPa	Joback Method
rinpol	2301.00		NIST Webbook
rinpol	2301.00		NIST Webbook
tb	802.43	K	Joback Method
tc	1028.88	K	Joback Method
tf	494.16	K	Joback Method
vc	0.862	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	665.13	J/mol×K	802.43	Joback Method
cpg	727.62	J/mol×K	991.14	Joback Method
cpg	717.53	J/mol×K	953.40	Joback Method
cpg	706.27	J/mol×K	915.66	Joback Method
cpg	693.80	J/mol×K	877.91	Joback Method
cpg	680.10	J/mol×K	840.17	Joback Method
cpg	736.57	J/mol×K	1028.88	Joback Method
dvisc	0.0001224	Pa×s	802.43	Joback Method

dvisc	0.0001530	Pa×s	751.05	Joback Method
dvisc	0.0001976	Pa×s	699.67	Joback Method
dvisc	0.0002658	Pa×s	648.29	Joback Method
dvisc	0.0003763	Pa×s	596.92	Joback Method
dvisc	0.0005687	Pa×s	545.54	Joback Method
dvisc	0.0009367	Pa×s	494.16	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U405397&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