Glutaric acid, 2,3-dichlorophenyl 2,4-dimethylpent-3-yl ester

Inchi: InChI=1S/C18H24Cl2O4/c1-11(2)18(12(3)4)24-16(22)10-6-9-15(21)23-14-8-5-7-13(19)17

InchiKey: HRCFEXPYMZABAK-UHFFFAOYSA-N

Formula: C18H24Cl2O4

SMILES: CC(C)C(OC(=O)CCCC(=O)Oc1cccc(Cl)c1Cl)C(C)C

Mol. weight [g/mol]: 375.29

Physical Properties

Property code	Value	Unit	Source
gf	-305.19	kJ/mol	Joback Method
hf	-738.18	kJ/mol	Joback Method
hfus	39.04	kJ/mol	Joback Method
hvap	85.18	kJ/mol	Joback Method
log10ws	-5.83		Crippen Method
logp	5.293		Crippen Method
mcvol	280.080	ml/mol	McGowan Method
pc	1475.88	kPa	Joback Method
rinpol	2477.00		NIST Webbook
rinpol	2477.00		NIST Webbook
tb	874.00	K	Joback Method
tc	1089.91	K	Joback Method
tf	503.24	K	Joback Method
vc	1.063	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	814.09	J/mol×K	874.00	Joback Method
cpg	827.69	J/mol×K	909.99	Joback Method
cpg	840.11	J/mol×K	945.97	Joback Method
cpg	851.35	J/mol×K	981.96	Joback Method
cpg	861.44	J/mol×K	1017.94	Joback Method
cpg	870.40	J/mol×K	1053.93	Joback Method
cpg	878.25	J/mol×K	1089.91	Joback Method
dvisc	0.0005880	Pa×s	503.24	Joback Method

dvisc	0.0002979	Pa×s	565.03	Joback Method
dvisc	0.0001726	Pa×s	626.83	Joback Method
dvisc	0.0001103	Pa×s	688.62	Joback Method
dvisc	0.0000758	Pa×s	750.41	Joback Method
dvisc	0.0000552	Pa×s	812.21	Joback Method
dvisc	0.0000421	Pa×s	874.00	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U393483&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