

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

Inchi:	InChI=1S/C18H25ClO4/c1-12(2)18(13(3)4)23-17(21)10-6-9-16(20)22-15-8-5-7-14(19)11-
InchiKey:	MMTYCZHALNXXSN-UHFFFAOYSA-N
Formula:	C18H25ClO4
SMILES:	CC(C)C(OC(=O)CCCC(=O)Oc1cccc(Cl)c1)C(C)C
Mol. weight [g/mol]:	340.84

Physical Properties

Property code	Value	Unit	Source
gf	-283.63	kJ/mol	Joback Method
hf	-710.97	kJ/mol	Joback Method
hfus	35.23	kJ/mol	Joback Method
hvap	80.13	kJ/mol	Joback Method
log10ws	-5.15		Crippen Method
logp	4.639		Crippen Method
mvol	267.840	ml/mol	McGowan Method
pc	1536.66	kPa	Joback Method
rinpol	2268.00		NIST Webbook
rinpol	2268.00		NIST Webbook
tb	831.59	K	Joback Method
tc	1042.66	K	Joback Method
tf	460.80	K	Joback Method
vc	1.014	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	790.03	J/molxK	831.59	Joback Method
cpg	805.01	J/molxK	866.77	Joback Method
cpg	818.82	J/molxK	901.95	Joback Method
cpg	831.48	J/molxK	937.12	Joback Method
cpg	843.02	J/molxK	972.30	Joback Method
cpg	853.45	J/molxK	1007.48	Joback Method
cpg	862.79	J/molxK	1042.66	Joback Method
dvisc	0.0008911	Paxs	460.80	Joback Method

dvisc	0.0004117	Paxs	522.60	Joback Method
dvisc	0.0002240	Paxs	584.40	Joback Method
dvisc	0.0001369	Paxs	646.19	Joback Method
dvisc	0.0000912	Paxs	707.99	Joback Method
dvisc	0.0000648	Paxs	769.79	Joback Method
dvisc	0.0000485	Paxs	831.59	Joback Method

Sources

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=U393481&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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