

Glutaric acid, 2,4,6-trichlorophenyl 2-methylhex-3-yl ester

Inchi:	InChI=1S/C18H23Cl3O4/c1-4-6-15(11(2)3)24-16(22)7-5-8-17(23)25-18-13(20)9-12(19)10
InchiKey:	LKJWLZSZBZQUBO-UHFFFAOYSA-N
Formula:	C18H23Cl3O4
SMILES:	CCCC(OC(=O)CCCC(=O)Oc1c(Cl)cc(Cl)cc1Cl)C(C)C
Mol. weight [g/mol]:	409.73

Physical Properties

Property code	Value	Unit	Source
gf	-324.31	kJ/mol	Joback Method
hf	-760.11	kJ/mol	Joback Method
hfus	46.37	kJ/mol	Joback Method
hvap	90.61	kJ/mol	Joback Method
log10ws	-6.76		Crippen Method
logp	6.090		Crippen Method
mvol	292.320	ml/mol	McGowan Method
pc	1410.13	kPa	Joback Method
rinpol	2540.00		NIST Webbook
rinpol	2540.00		NIST Webbook
tb	916.85	K	Joback Method
tc	1135.89	K	Joback Method
tf	560.68	K	Joback Method
vc	1.119	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	835.30	J/molxK	916.85	Joback Method
cpg	847.45	J/molxK	953.36	Joback Method
cpg	858.41	J/molxK	989.86	Joback Method
cpg	868.20	J/molxK	1026.37	Joback Method
cpg	876.84	J/molxK	1062.88	Joback Method
cpg	884.33	J/molxK	1099.38	Joback Method
cpg	890.71	J/molxK	1135.89	Joback Method
dvisc	0.0003680	Paxs	560.68	Joback Method

dvisc	0.0002127	Paxs	620.04	Joback Method
dvisc	0.0001353	Paxs	679.40	Joback Method
dvisc	0.0000925	Paxs	738.77	Joback Method
dvisc	0.0000670	Paxs	798.13	Joback Method
dvisc	0.0000507	Paxs	857.49	Joback Method
dvisc	0.0000398	Paxs	916.85	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U393844&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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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