

Dimethylmalonic acid, 2,4-dichloro-6-formylphenyl isoheptyl ester

Inchi:	InChI=1S/C18H22Cl2O5/c1-11(2)6-5-7-24-16(22)18(3,4)17(23)25-15-12(10-21)8-13(19)9
InchiKey:	YMQHVEFOVRHIHC-UHFFFAOYSA-N
Formula:	C18H22Cl2O5
SMILES:	CC(C)CCCOC(=O)C(C)(C)C(=O)Oc1c(Cl)cc(Cl)cc1C=O
Mol. weight [g/mol]:	389.27

Physical Properties

Property code	Value	Unit	Source
gf	-406.62	kJ/mol	Joback Method
hf	-833.42	kJ/mol	Joback Method
hfus	40.57	kJ/mol	Joback Method
hvap	92.04	kJ/mol	Joback Method
log10ws	-5.54		Crippen Method
logp	4.717		Crippen Method
mvol	281.650	ml/mol	McGowan Method
pc	1548.78	kPa	Joback Method
rinpol	2391.00		NIST Webbook
rinpol	2391.00		NIST Webbook
tb	925.29	K	Joback Method
tc	1148.08	K	Joback Method
tf	590.18	K	Joback Method
vc	1.081	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	822.68	J/molxK	925.29	Joback Method
cpg	834.18	J/molxK	962.42	Joback Method
cpg	844.56	J/molxK	999.55	Joback Method
cpg	853.86	J/molxK	1036.68	Joback Method
cpg	862.09	J/molxK	1073.81	Joback Method
cpg	869.31	J/molxK	1110.94	Joback Method
cpg	875.55	J/molxK	1148.08	Joback Method
dvisc	0.0003473	Paxs	590.18	Joback Method

dvisc	0.0002100	Paxs	646.03	Joback Method
dvisc	0.0001375	Paxs	701.88	Joback Method
dvisc	0.0000959	Paxs	757.74	Joback Method
dvisc	0.0000702	Paxs	813.59	Joback Method
dvisc	0.0000536	Paxs	869.44	Joback Method
dvisc	0.0000422	Paxs	925.29	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=U363634&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

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