

Dimethylmalonic acid, di(2,4-dichloro-6-formylphenyl) ester

Inchi:	InChI=1S/C19H12Cl4O6/c1-19(2,17(26)28-15-9(7-24)3-11(20)5-13(15)22)18(27)29-16-1
InchiKey:	PNGYCDPOVQCQFZ-UHFFFAOYSA-N
Formula:	C19H12Cl4O6
SMILES:	CC(C)(C(=O)Oc1c(Cl)cc(Cl)cc1C=O)C(=O)Oc1c(Cl)cc(Cl)cc1C=O
Mol. weight [g/mol]:	478.11

Physical Properties

Property code	Value	Unit	Source
gf	-435.62	kJ/mol	Joback Method
hf	-763.72	kJ/mol	Joback Method
hfus	50.24	kJ/mol	Joback Method
hvap	114.41	kJ/mol	Joback Method
log10ws	-7.15		Crippen Method
logp	5.462		Crippen Method
mcvol	298.030	ml/mol	McGowan Method
pc	1796.98	kPa	Joback Method
rinpol	3173.00		NIST Webbook
tb	1113.75	K	Joback Method
tc	1372.50	K	Joback Method
tf	782.27	K	Joback Method
vc	1.151	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	792.49	J/molxK	1113.75	Joback Method
cpg	796.61	J/molxK	1156.87	Joback Method
cpg	799.51	J/molxK	1200.00	Joback Method
cpg	801.23	J/molxK	1243.12	Joback Method
cpg	801.82	J/molxK	1286.25	Joback Method
cpg	801.32	J/molxK	1329.37	Joback Method
cpg	799.77	J/molxK	1372.50	Joback Method
dvisc	0.0001455	Paxs	782.27	Joback Method
dvisc	0.0001046	Paxs	837.52	Joback Method

dvisc	0.0000784	Paxs	892.76	Joback Method
dvisc	0.0000608	Paxs	948.01	Joback Method
dvisc	0.0000484	Paxs	1003.26	Joback Method
dvisc	0.0000395	Paxs	1058.50	Joback Method
dvisc	0.0000329	Paxs	1113.75	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=U363641&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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