

Dimethylmalonic acid, hexyl pentachlorophenyl ester

Inchi:	InChI=1S/C17H19Cl5O4/c1-4-5-6-7-8-25-15(23)17(2,3)16(24)26-14-12(21)10(19)9(18)1
InchiKey:	JBSWAYORSIHUHR-UHFFFAOYSA-N
Formula:	C17H19Cl5O4
SMILES:	CCCCCOC(=O)C(C)(C)C(=O)Oc1c(Cl)c(Cl)c(Cl)c(Cl)c1Cl
Mol. weight [g/mol]:	464.60

Physical Properties

Property code	Value	Unit	Source
gf	-368.13	kJ/mol	Joback Method
hf	-792.08	kJ/mol	Joback Method
hfus	51.03	kJ/mol	Joback Method
hvap	97.96	kJ/mol	Joback Method
log10ws	-7.60		Crippen Method
logp	7.009		Crippen Method
mvol	302.710	ml/mol	McGowan Method
pc	1404.84	kPa	Joback Method
rinpol	2833.00		NIST Webbook
rinpol	2833.00		NIST Webbook
tb	976.44	K	Joback Method
tc	1207.71	K	Joback Method
tf	666.71	K	Joback Method
vc	1.161	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	814.62	J/molxK	976.44	Joback Method
cpg	851.16	J/molxK	1169.16	Joback Method
cpg	845.90	J/molxK	1130.62	Joback Method
cpg	839.65	J/molxK	1092.07	Joback Method
cpg	832.37	J/molxK	1053.53	Joback Method
cpg	824.03	J/molxK	1014.98	Joback Method
cpg	855.44	J/molxK	1207.71	Joback Method
dvisc	0.0000314	Paxs	976.44	Joback Method

dvisc	0.0000384	Paxs	924.82	Joback Method
dvisc	0.0000481	Paxs	873.20	Joback Method
dvisc	0.0000620	Paxs	821.57	Joback Method
dvisc	0.0000826	Paxs	769.95	Joback Method
dvisc	0.0001147	Paxs	718.33	Joback Method
dvisc	0.0001677	Paxs	666.71	Joback Method

Sources

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=U363929&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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