

Dimethylmalonic acid, 4-acetylphenyl isohexyl ester

Inchi:	InChI=1S/C19H26O5/c1-13(2)7-6-12-23-17(21)19(4,5)18(22)24-16-10-8-15(9-11-16)14(3)
InchiKey:	FKBOFNHBRWSGEG-UHFFFAOYSA-N
Formula:	C19H26O5
SMILES:	CC(=O)c1ccc(OC(=O)C(C)(C)C(=O)OCCCC(C)C)cc1
Mol. weight [g/mol]:	334.41

Physical Properties

Property code	Value	Unit	Source
gf	-384.48	kJ/mol	Joback Method
hf	-826.64	kJ/mol	Joback Method
hfus	34.85	kJ/mol	Joback Method
hvap	84.20	kJ/mol	Joback Method
log10ws	-4.59		Crippen Method
logp	3.800		Crippen Method
mvol	271.260	ml/mol	McGowan Method
pc	1545.13	kPa	Joback Method
rinpol	2286.00		NIST Webbook
rinpol	2286.00		NIST Webbook
tb	868.56	K	Joback Method
tc	1083.50	K	Joback Method
tf	524.50	K	Joback Method
vc	1.028	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	836.94	J/molxK	868.56	Joback Method
cpg	851.33	J/molxK	904.38	Joback Method
cpg	864.54	J/molxK	940.21	Joback Method
cpg	876.60	J/molxK	976.03	Joback Method
cpg	887.56	J/molxK	1011.85	Joback Method
cpg	897.45	J/molxK	1047.67	Joback Method
cpg	906.31	J/molxK	1083.50	Joback Method
dvisc	0.0005419	Paxs	524.50	Joback Method

dvisc	0.0002892	Paxs	581.84	Joback Method
dvisc	0.0001727	Paxs	639.19	Joback Method
dvisc	0.0001123	Paxs	696.53	Joback Method
dvisc	0.0000779	Paxs	753.87	Joback Method
dvisc	0.0000570	Paxs	811.22	Joback Method
dvisc	0.0000434	Paxs	868.56	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U363700&Units=SI
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

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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