

Dimethylmalonic acid, heptadecyl 2-isopropoxyphenyl ester

Inchi:	InChI=1S/C31H52O5/c1-6-7-8-9-10-11-12-13-14-15-16-17-18-19-22-25-34-29(32)31(4,5
InchiKey:	VGXOFRSHXRJYRL-UHFFFAOYSA-N
Formula:	C31H52O5
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C(C)(C)C(=O)Oc1ccccc1OC(C)C
Mol. weight [g/mol]:	504.74

Physical Properties

Property code	Value	Unit	Source
gf	-259.52	kJ/mol	Joback Method
hf	-1093.96	kJ/mol	Joback Method
hfus	65.52	kJ/mol	Joback Method
hvap	106.58	kJ/mol	Joback Method
log10ws	-9.85		Crippen Method
logp	8.820		Crippen Method
mvol	444.640	ml/mol	McGowan Method
pc	701.35	kPa	Joback Method
rinpol	3276.00		NIST Webbook
rinpol	3276.00		NIST Webbook
tb	1111.67	K	Joback Method
tc	1378.31	K	Joback Method
tf	632.04	K	Joback Method
vc	1.712	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1588.64	J/molxK	1111.67	Joback Method
cpg	1606.61	J/molxK	1156.11	Joback Method
cpg	1622.30	J/molxK	1200.55	Joback Method
cpg	1635.87	J/molxK	1244.99	Joback Method
cpg	1647.42	J/molxK	1289.43	Joback Method
cpg	1657.10	J/molxK	1333.87	Joback Method
cpg	1665.04	J/molxK	1378.31	Joback Method
dvisc	0.0000986	Paxs	632.04	Joback Method

dvisc	0.0000455	Paxs	711.98	Joback Method
dvisc	0.0000246	Paxs	791.92	Joback Method
dvisc	0.0000149	Paxs	871.86	Joback Method
dvisc	0.0000098	Paxs	951.79	Joback Method
dvisc	0.0000069	Paxs	1031.73	Joback Method
dvisc	0.0000051	Paxs	1111.67	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=U361865&Units=SI

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{pol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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