

Dimethylmalonic acid, heptyl 2-isopropoxyphenyl ester

Inchi:	InChI=1S/C21H32O5/c1-6-7-8-9-12-15-24-19(22)21(4,5)20(23)26-18-14-11-10-13-17(18)
InchiKey:	TVEYSSIOAMQUAA-UHFFFAOYSA-N
Formula:	C21H32O5
SMILES:	CCCCCCCOC(=O)C(C)(C)C(=O)Oc1ccccc1OC(C)C
Mol. weight [g/mol]:	364.48

Physical Properties

Property code	Value	Unit	Source
gf	-343.72	kJ/mol	Joback Method
hf	-887.56	kJ/mol	Joback Method
hfus	39.62	kJ/mol	Joback Method
hvap	84.32	kJ/mol	Joback Method
log10ws	-5.66		Crippen Method
logp	4.919		Crippen Method
mcvol	303.740	ml/mol	McGowan Method
pc	1261.06	kPa	Joback Method
rinpol	2266.00		NIST Webbook
tb	882.87	K	Joback Method
tc	1091.16	K	Joback Method
tf	519.34	K	Joback Method
vc	1.153	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	967.85	J/molxK	882.87	Joback Method
cpg	983.85	J/molxK	917.58	Joback Method
cpg	998.55	J/molxK	952.30	Joback Method
cpg	1012.00	J/molxK	987.01	Joback Method
cpg	1024.23	J/molxK	1021.73	Joback Method
cpg	1035.26	J/molxK	1056.44	Joback Method
cpg	1045.14	J/molxK	1091.16	Joback Method
dvisc	0.0003781	Paxs	519.34	Joback Method
dvisc	0.0001905	Paxs	579.93	Joback Method

dvisc	0.0001093	Paxs	640.52	Joback Method
dvisc	0.0000690	Paxs	701.10	Joback Method
dvisc	0.0000469	Paxs	761.69	Joback Method
dvisc	0.0000337	Paxs	822.28	Joback Method
dvisc	0.0000254	Paxs	882.87	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=U361855&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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