

Diethylmalonic acid, 2,6-dimethoxyphenyl pentyl ester

Inchi:	InChI=1S/C20H30O6/c1-6-9-10-14-25-18(21)20(7-2,8-3)19(22)26-17-15(23-4)12-11-13-1
InchiKey:	QOOKLABLLUOCSD-UHFFFAOYSA-N
Formula:	C20H30O6
SMILES:	CCCCCOC(=O)C(CC)(CC)C(=O)Oc1c(OC)cccc1OC
Mol. weight [g/mol]:	366.45

Physical Properties

Property code	Value	Unit	Source
gf	-464.33	kJ/mol	Joback Method
hf	-1005.33	kJ/mol	Joback Method
hfus	41.35	kJ/mol	Joback Method
hvap	85.55	kJ/mol	Joback Method
log10ws	-4.83		Crippen Method
logp	4.149		Crippen Method
mcvol	295.520	ml/mol	McGowan Method
pc	1312.75	kPa	Joback Method
rinpol	2396.00		NIST Webbook
tb	887.83	K	Joback Method
tc	1095.80	K	Joback Method
tf	557.82	K	Joback Method
vc	1.121	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	936.08	J/molxK	887.83	Joback Method
cpg	951.13	J/molxK	922.49	Joback Method
cpg	964.87	J/molxK	957.15	Joback Method
cpg	977.30	J/molxK	991.81	Joback Method
cpg	988.43	J/molxK	1026.48	Joback Method
cpg	998.27	J/molxK	1061.14	Joback Method
cpg	1006.82	J/molxK	1095.80	Joback Method
dvisc	0.0002257	Paxs	557.82	Joback Method
dvisc	0.0001318	Paxs	612.82	Joback Method

dvisc	0.0000841	Paxs	667.82	Joback Method
dvisc	0.0000574	Paxs	722.82	Joback Method
dvisc	0.0000414	Paxs	777.83	Joback Method
dvisc	0.0000311	Paxs	832.83	Joback Method
dvisc	0.0000243	Paxs	887.83	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=U369812&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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