

Diethylmalonic acid, di(3-methoxyphenyl) ester

Inchi:	InChI=1S/C21H24O6/c1-5-21(6-2,19(22)26-17-11-7-9-15(13-17)24-3)20(23)27-18-12-8-1
InchiKey:	JYGDUBSIFOBSOT-UHFFFAOYSA-N
Formula:	C21H24O6
SMILES:	CCC(CC)(C(=O)Oc1cccc(OC)c1)C(=O)Oc1cccc(OC)c1
Mol. weight [g/mol]:	372.41

Physical Properties

Property code	Value	Unit	Source
gf	-343.50	kJ/mol	Joback Method
hf	-789.44	kJ/mol	Joback Method
hfus	37.99	kJ/mol	Joback Method
hvap	90.05	kJ/mol	Joback Method
log10ws	-5.00		Crippen Method
logp	4.021		Crippen Method
mvol	285.850	ml/mol	McGowan Method
pc	1568.47	kPa	Joback Method
rinpol	2668.00		NIST Webbook
rinpol	2668.00		NIST Webbook
tb	937.39	K	Joback Method
tc	1166.72	K	Joback Method
tf	595.51	K	Joback Method
vc	1.069	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	893.05	J/molxK	937.39	Joback Method
cpg	905.78	J/molxK	975.61	Joback Method
cpg	917.00	J/molxK	1013.83	Joback Method
cpg	926.72	J/molxK	1052.05	Joback Method
cpg	934.98	J/molxK	1090.27	Joback Method
cpg	941.79	J/molxK	1128.50	Joback Method
cpg	947.19	J/molxK	1166.72	Joback Method
dvisc	0.0001790	Paxs	595.51	Joback Method

dvisc	0.0001075	Paxs	652.49	Joback Method
dvisc	0.0000701	Paxs	709.47	Joback Method
dvisc	0.0000487	Paxs	766.45	Joback Method
dvisc	0.0000356	Paxs	823.43	Joback Method
dvisc	0.0000271	Paxs	880.41	Joback Method
dvisc	0.0000213	Paxs	937.39	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U370877&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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