

Diethylmalonic acid, di(2,6-dimethoxyphenyl) ester

Inchi:	InChI=1S/C23H28O8/c1-7-23(8-2,21(24)30-19-15(26-3)11-9-12-16(19)27-4)22(25)31-20
InchiKey:	WHCVATGOQAVFTQ-UHFFFAOYSA-N
Formula:	C23H28O8
SMILES:	CCC(CC)(C(=O)Oc1c(OC)cccc1OC)C(=O)Oc1c(OC)cccc1OC
Mol. weight [g/mol]:	432.46

Physical Properties

Property code	Value	Unit	Source
gf	-555.92	kJ/mol	Joback Method
hf	-1118.10	kJ/mol	Joback Method
hfus	44.76	kJ/mol	Joback Method
hvap	100.65	kJ/mol	Joback Method
log10ws	-5.24		Crippen Method
logp	4.038		Crippen Method
mcvol	325.770	ml/mol	McGowan Method
pc	1293.00	kPa	Joback Method
rinpol	2963.00		NIST Webbook
rinpol	2963.00		NIST Webbook
tb	1037.95	K	Joback Method
tc	1273.44	K	Joback Method
tf	687.55	K	Joback Method
vc	1.216	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1058.40	J/molxK	1037.95	Joback Method
cpg	1067.91	J/molxK	1077.20	Joback Method
cpg	1075.30	J/molxK	1116.45	Joback Method
cpg	1080.55	J/molxK	1155.70	Joback Method
cpg	1083.63	J/molxK	1194.94	Joback Method
cpg	1084.54	J/molxK	1234.19	Joback Method
cpg	1083.23	J/molxK	1273.44	Joback Method
dvisc	0.0000576	Paxs	687.55	Joback Method

dvisc	0.0000374	Paxs	745.95	Joback Method
dvisc	0.0000258	Paxs	804.35	Joback Method
dvisc	0.0000187	Paxs	862.75	Joback Method
dvisc	0.0000142	Paxs	921.15	Joback Method
dvisc	0.0000111	Paxs	979.55	Joback Method
dvisc	0.0000089	Paxs	1037.95	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U369818&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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