

Diethylmalonic acid, di(2-isopropoxyphenyl) ester

Inchi:	InChI=1S/C25H32O6/c1-7-25(8-2,23(26)30-21-15-11-9-13-19(21)28-17(3)4)24(27)31-22
InchiKey:	LRFCRCDFEBRGMX-UHFFFAOYSA-N
Formula:	C25H32O6
SMILES:	CCC(CC)(C(=O)Oc1ccccc1OC(C)C)C(=O)Oc1ccccc1OC(C)C
Mol. weight [g/mol]:	428.52

Physical Properties

Property code	Value	Unit	Source
gf	-314.70	kJ/mol	Joback Method
hf	-882.56	kJ/mol	Joback Method
hfus	41.30	kJ/mol	Joback Method
hvap	98.18	kJ/mol	Joback Method
log10ws	-6.90		Crippen Method
logp	5.578		Crippen Method
mvol	342.210	ml/mol	McGowan Method
pc	1194.82	kPa	Joback Method
rinpol	2707.00		NIST Webbook
rinpol	2707.00		NIST Webbook
tb	1028.03	K	Joback Method
tc	1263.21	K	Joback Method
tf	610.59	K	Joback Method
vc	1.280	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1130.50	J/molxK	1028.03	Joback Method
cpg	1142.87	J/molxK	1067.23	Joback Method
cpg	1153.48	J/molxK	1106.42	Joback Method
cpg	1162.36	J/molxK	1145.62	Joback Method
cpg	1169.58	J/molxK	1184.82	Joback Method
cpg	1175.16	J/molxK	1224.01	Joback Method
cpg	1179.15	J/molxK	1263.21	Joback Method
dvisc	0.0001290	Paxs	610.59	Joback Method

dvisc	0.0000669	Paxs	680.16	Joback Method
dvisc	0.0000391	Paxs	749.74	Joback Method
dvisc	0.0000251	Paxs	819.31	Joback Method
dvisc	0.0000172	Paxs	888.88	Joback Method
dvisc	0.0000125	Paxs	958.46	Joback Method
dvisc	0.0000095	Paxs	1028.03	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=U369596&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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