

Diethylmalonic acid, hexyl 2-isopropylphenyl ester

Inchi:	InChI=1S/C22H34O4/c1-6-9-10-13-16-25-20(23)22(7-2,8-3)21(24)26-19-15-12-11-14-18
InchiKey:	CSZMWHHDFPSNCL-UHFFFAOYSA-N
Formula:	C22H34O4
SMILES:	CCCCCOC(=O)C(CC)(CC)C(=O)Oc1ccccc1C(C)C
Mol. weight [g/mol]:	362.50

Physical Properties

Property code	Value	Unit	Source
gf	-230.30	kJ/mol	Joback Method
hf	-775.98	kJ/mol	Joback Method
hfus	41.02	kJ/mol	Joback Method
hvap	84.13	kJ/mol	Joback Method
log10ws	-6.20		Crippen Method
logp	5.645		Crippen Method
mcvol	311.960	ml/mol	McGowan Method
pc	1193.17	kPa	Joback Method
rinpol	2220.00		NIST Webbook
tb	883.33	K	Joback Method
tc	1091.23	K	Joback Method
tf	508.38	K	Joback Method
vc	1.190	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	998.32	J/mol×K	883.33	Joback Method
cpg	1015.05	J/mol×K	917.98	Joback Method
cpg	1030.54	J/mol×K	952.63	Joback Method
cpg	1044.85	J/mol×K	987.28	Joback Method
cpg	1058.01	J/mol×K	1021.93	Joback Method
cpg	1070.07	J/mol×K	1056.58	Joback Method
cpg	1081.10	J/mol×K	1091.23	Joback Method
dvisc	0.0004944	Pa×s	508.38	Joback Method
dvisc	0.0002388	Pa×s	570.87	Joback Method

dvisc	0.0001332	Pa×s	633.36	Joback Method
dvisc	0.0000825	Pa×s	695.86	Joback Method
dvisc	0.0000553	Pa×s	758.35	Joback Method
dvisc	0.0000394	Pa×s	820.84	Joback Method
dvisc	0.0000294	Pa×s	883.33	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U369971&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
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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