

Diethylmalonyl dichloride

Inchi:	InChI=1S/C7H10Cl2O2/c1-3-7(4-2,5(8)10)6(9)11/h3-4H2,1-2H3
InchiKey:	FWKCXFPQSXNCBW-UHFFFAOYSA-N
Formula:	C7H10Cl2O2
SMILES:	CCC(CC)(C(=O)Cl)C(=O)Cl
Mol. weight [g/mol]:	197.06
CAS:	54505-72-5

Physical Properties

Property code	Value	Unit	Source
gf	-270.80	kJ/mol	Joback Method
hf	-453.20	kJ/mol	Joback Method
hfus	18.06	kJ/mol	Joback Method
hvap	52.14	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	2.324		Crippen Method
mcvol	137.110	ml/mol	McGowan Method
pc	3022.28	kPa	Joback Method
rinpol	1102.00		NIST Webbook
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tb	538.93	K	Joback Method
tc	749.59	K	Joback Method
tf	330.77	K	Joback Method
vc	0.526	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	285.91	J/molxK	538.93	Joback Method
cpg	296.22	J/molxK	574.04	Joback Method
cpg	305.83	J/molxK	609.15	Joback Method
cpg	314.78	J/molxK	644.26	Joback Method
cpg	323.10	J/molxK	679.37	Joback Method
cpg	330.83	J/molxK	714.48	Joback Method
cpg	338.01	J/molxK	749.59	Joback Method

dvisc	0.0037254	Paxs	330.77	Joback Method
dvisc	0.0020714	Paxs	365.46	Joback Method
dvisc	0.0012752	Paxs	400.16	Joback Method
dvisc	0.0008482	Paxs	434.85	Joback Method
dvisc	0.0005992	Paxs	469.54	Joback Method
dvisc	0.0004440	Paxs	504.24	Joback Method
dvisc	0.0003420	Paxs	538.93	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C54505725&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

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
mvol:	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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