

Hexanedioyl dichloride

Other names:	Adipoyl chloride Adipic acid dichloride Adipic dichloride Adipoyl dichloride Adipyl chloride Hexanedioyl chloride 1,4-Bis(Chlorocarbonyl)butane
Inchi:	InChI=1S/C6H8Cl2O2/c7-5(9)3-1-2-4-6(8)10/h1-4H2
InchiKey:	PWAXUOGZOSVGB0-UHFFFAOYSA-N
Formula:	C6H8Cl2O2
SMILES:	O=C(Cl)CCCC(=O)Cl
Mol. weight [g/mol]:	183.03
CAS:	111-50-2

Physical Properties

Property code	Value	Unit	Source
gf	-282.06	kJ/mol	Joback Method
hf	-423.81	kJ/mol	Joback Method
hfus	22.89	kJ/mol	Joback Method
hvap	51.21	kJ/mol	Joback Method
log10ws	-2.19		Crippen Method
logp	2.078		Crippen Method
mcvol	123.020	ml/mol	McGowan Method
pc	3295.37	kPa	Joback Method
tb	519.28	K	Joback Method
tc	720.45	K	Joback Method
tf	317.08	K	Joback Method
vc	0.481	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	239.78	J/mol×K	519.28	Joback Method
cpg	248.34	J/mol×K	552.81	Joback Method

cpg	256.43	J/molxK	586.34	Joback Method
cpg	264.07	J/molxK	619.87	Joback Method
cpg	271.28	J/molxK	653.40	Joback Method
cpg	278.06	J/molxK	686.92	Joback Method
cpg	284.43	J/molxK	720.45	Joback Method
dvisc	0.0032730	Paxs	317.08	Joback Method
dvisc	0.0019493	Paxs	350.78	Joback Method
dvisc	0.0012714	Paxs	384.48	Joback Method
dvisc	0.0008883	Paxs	418.18	Joback Method
dvisc	0.0006548	Paxs	451.88	Joback Method
dvisc	0.0005035	Paxs	485.58	Joback Method
dvisc	0.0004006	Paxs	519.28	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	379.20	K	0.30	NIST Webbook

Sources

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=C111502&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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