

2-Pentene, 4-chloro-

Inchi:	InChI=1S/C5H9Cl/c1-3-4-5(2)6/h3-5H,1-2H3/b4-3+
InchiKey:	FKKCIOTUMHPTSB-ONEGZZNKSA-N
Formula:	C5H9Cl
SMILES:	CC=CC(C)Cl
Mol. weight [g/mol]:	104.58
CAS:	1458-99-7

Physical Properties

Property code	Value	Unit	Source
gf	57.07	kJ/mol	Joback Method
hf	-50.33	kJ/mol	Joback Method
hfus	9.58	kJ/mol	Joback Method
hvap	30.68	kJ/mol	Joback Method
log10ws	-2.03		Crippen Method
logp	2.190		Crippen Method
mcvol	89.250	ml/mol	McGowan Method
pc	3564.27	kPa	Joback Method
rinpol	742.00		NIST Webbook
tb	354.95	K	Joback Method
tc	541.48	K	Joback Method
tf	155.95	K	Joback Method
vc	0.339	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	136.80	J/molxK	354.95	Joback Method
cpg	145.84	J/molxK	386.04	Joback Method
cpg	154.44	J/molxK	417.13	Joback Method
cpg	162.59	J/molxK	448.21	Joback Method
cpg	170.33	J/molxK	479.30	Joback Method
cpg	177.68	J/molxK	510.39	Joback Method
cpg	184.64	J/molxK	541.48	Joback Method
dvisc	0.0074259	Paxs	155.95	Joback Method

dvisc	0.0025041	Paxs	189.12	Joback Method
dvisc	0.0011680	Paxs	222.28	Joback Method
dvisc	0.0006641	Paxs	255.45	Joback Method
dvisc	0.0004299	Paxs	288.62	Joback Method
dvisc	0.0003044	Paxs	321.78	Joback Method
dvisc	0.0002299	Paxs	354.95	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1458997&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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