

trans-2,5-Dichloror-2,5-dimethyl-3-hexene

Inchi:	InChI=1S/C8H14Cl2/c1-7(2,9)5-6-8(3,4)10/h5-6H,1-4H3/b6-5+
InchiKey:	ANSLDRRWTXDPKO-AATRIKPKSA-N
Formula:	C8H14Cl2
SMILES:	CC(C)(Cl)C=CC(C)(C)Cl
Mol. weight [g/mol]:	181.10
CAS:	22966-70-7

Physical Properties

Property code	Value	Unit	Source
gf	78.52	kJ/mol	Joback Method
hf	-140.21	kJ/mol	Joback Method
hfus	10.24	kJ/mol	Joback Method
hvap	39.54	kJ/mol	Joback Method
log10ws	-3.55		Crippen Method
logp	3.577		Crippen Method
mcvol	143.760	ml/mol	McGowan Method
pc	2576.72	kPa	Joback Method
tb	455.00	K	Joback Method
tc	666.25	K	Joback Method
tf	239.52	K	Joback Method
vc	0.539	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.12	J/molxK	455.00	Joback Method
cpg	343.69	J/molxK	631.04	Joback Method
cpg	333.10	J/molxK	595.84	Joback Method
cpg	321.62	J/molxK	560.63	Joback Method
cpg	309.18	J/molxK	525.42	Joback Method
cpg	295.71	J/molxK	490.21	Joback Method
cpg	353.49	J/molxK	666.25	Joback Method
dvisc	0.0002533	Paxs	455.00	Joback Method
dvisc	0.0003598	Paxs	419.09	Joback Method

dvisc	0.0005459	Paxs	383.17	Joback Method
dvisc	0.0009027	Paxs	347.26	Joback Method
dvisc	0.0016765	Paxs	311.35	Joback Method
dvisc	0.0036590	Paxs	275.43	Joback Method
dvisc	0.0100919	Paxs	239.52	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=C22966707&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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