

(Z)-4,5-Dimethylhex-2-ene

Other names:	2-Hexene, 4,5-dimethyl-, cis
Inchi:	InChI=1S/C8H16/c1-5-6-8(4)7(2)3/h5-8H,1-4H3/b6-5-
InchiKey:	OAVNNZUEVHDKP-WAYWQWQTSA-N
Formula:	C8H16
SMILES:	CC=CC(C)C(C)C
Mol. weight [g/mol]:	112.21

Physical Properties

Property code	Value	Unit	Source
gf	91.82	kJ/mol	Joback Method
hf	-101.79	kJ/mol	Joback Method
hfus	9.63	kJ/mol	Joback Method
hvap	32.58	kJ/mol	Joback Method
log10ws	-2.54		Crippen Method
logp	2.855		Crippen Method
mcvol	119.280	ml/mol	McGowan Method
pc	2718.33	kPa	Joback Method
rinpol	735.70		NIST Webbook
rinpol	741.00		NIST Webbook
rinpol	737.00		NIST Webbook
rinpol	746.50		NIST Webbook
rinpol	746.50		NIST Webbook
tb	385.72	K	Joback Method
tc	565.78	K	Joback Method
tf	144.84	K	Joback Method
vc	0.452	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	217.83	J/molxK	385.72	Joback Method
cpg	280.44	J/molxK	535.77	Joback Method
cpg	269.06	J/molxK	505.76	Joback Method
cpg	257.12	J/molxK	475.75	Joback Method

cpg	244.62	J/molxK	445.74	Joback Method
cpg	231.54	J/molxK	415.73	Joback Method
cpg	291.30	J/molxK	565.78	Joback Method
dvisc	0.0001887	Paxs	385.72	Joback Method
dvisc	0.0002641	Paxs	345.57	Joback Method
dvisc	0.0004036	Paxs	305.43	Joback Method
dvisc	0.0007016	Paxs	265.28	Joback Method
dvisc	0.0014851	Paxs	225.13	Joback Method
dvisc	0.0043531	Paxs	184.99	Joback Method
dvisc	0.0231611	Paxs	144.84	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R293179&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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