

Hexane, 2,3,4,5-tetramethyl-, erythro

Inchi:	InChI=1S/C10H22/c1-7(2)9(5)10(6)8(3)4/h7-10H,1-6H3/t9-,10+
InchiKey:	BHGNYYIOYPFWKC-AOOOYVTPSA-N
Formula:	C10H22
SMILES:	CC(C)C(C)C(C)C(C)C
Mol. weight [g/mol]:	142.28

Physical Properties

Property code	Value	Unit	Source
gf	23.56	kJ/mol	Joback Method
hf	-270.85	kJ/mol	Joback Method
hfus	7.56	kJ/mol	Joback Method
hvap	36.30	kJ/mol	Joback Method
log10ws	-3.04		Crippen Method
logp	3.571		Crippen Method
mcvol	151.760	ml/mol	McGowan Method
pc	2171.40	kPa	Joback Method
rinpol	916.00		NIST Webbook
tb	426.44	K	Joback Method
tc	603.70	K	Joback Method
tf	142.46	K	Joback Method
vc	0.572	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	315.20	J/mol×K	426.44	Joback Method
cpg	332.01	J/mol×K	455.98	Joback Method
cpg	348.14	J/mol×K	485.53	Joback Method
cpg	363.61	J/mol×K	515.07	Joback Method
cpg	378.44	J/mol×K	544.61	Joback Method
cpg	392.64	J/mol×K	574.15	Joback Method
cpg	406.22	J/mol×K	603.70	Joback Method
dvisc	0.1409238	Pa×s	142.46	Joback Method
dvisc	0.0120813	Pa×s	189.79	Joback Method

dvisc	0.0027615	Pa×s	237.12	Joback Method
dvisc	0.0010315	Pa×s	284.45	Joback Method
dvisc	0.0005103	Pa×s	331.78	Joback Method
dvisc	0.0003010	Pa×s	379.11	Joback Method
dvisc	0.0001996	Pa×s	426.44	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R295497&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
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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