

Hexane, 3-ethyl-2,4-dimethyl-

Other names:	2,4-Dimethyl-3-ethylhexane
Inchi:	InChI=1S/C10H22/c1-6-9(5)10(7-2)8(3)4/h8-10H,6-7H2,1-5H3
InchiKey:	OSKIMJMPFNLVOU-UHFFFAOYSA-N
Formula:	C10H22
SMILES:	CCC(C)C(CC)C(C)C
Mol. weight [g/mol]:	142.28
CAS:	7220-26-0

Physical Properties

Property code	Value	Unit	Source
gf	26.00	kJ/mol	Joback Method
hf	-265.57	kJ/mol	Joback Method
hfus	11.09	kJ/mol	Joback Method
hvap	46.90	kJ/mol	NIST Webbook
log10ws	-3.28		Crippen Method
logp	3.715		Crippen Method
mcvol	151.760	ml/mol	McGowan Method
pc	2155.30	kPa	Joback Method
rinpol	930.00		NIST Webbook
rinpol	930.00		NIST Webbook
rinpol	929.00		NIST Webbook
rinpol	930.00		NIST Webbook
rinpol	929.80		NIST Webbook
rinpol	930.00		NIST Webbook
tb	426.88	K	Joback Method
tc	600.24	K	Joback Method
tf	157.46	K	Joback Method
vc	0.578	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	315.23	J/mol×K	426.88	Joback Method
cpg	390.75	J/mol×K	571.35	Joback Method

cpg	376.87	J/mol×K	542.45	Joback Method
cpg	362.39	J/mol×K	513.56	Joback Method
cpg	347.31	J/mol×K	484.67	Joback Method
cpg	331.59	J/mol×K	455.77	Joback Method
cpg	404.05	J/mol×K	600.24	Joback Method
dvisc	0.0002081	Pa×s	426.88	Joback Method
dvisc	0.0003031	Pa×s	381.98	Joback Method
dvisc	0.0004880	Pa×s	337.07	Joback Method
dvisc	0.0009096	Pa×s	292.17	Joback Method
dvisc	0.0021254	Pa×s	247.27	Joback Method
dvisc	0.0072381	Pa×s	202.36	Joback Method
dvisc	0.0495825	Pa×s	157.46	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=C7220260&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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