

# Octane, 2,4,6-trimethyl-

<b>Other names:</b>	2,4,6-Trimethyl-octane
<b>Inchi:</b>	InChI=1S/C11H24/c1-6-10(4)8-11(5)7-9(2)3/h9-11H,6-8H2,1-5H3
<b>InchiKey:</b>	XHNIFDXYGLPJLP-UHFFFAOYSA-N
<b>Formula:</b>	C11H24
<b>SMILES:</b>	CCC(C)CC(C)CC(C)C
<b>Mol. weight [g/mol]:</b>	156.31
<b>CAS:</b>	62016-37-9

## Physical Properties

Property code	Value	Unit	Source
gf	34.42	kJ/mol	Joback Method
hf	-286.21	kJ/mol	Joback Method
hfus	13.68	kJ/mol	Joback Method
hvap	38.92	kJ/mol	Joback Method
log10ws	-3.70		Crippen Method
logp	4.105		Crippen Method
mcvol	165.850	ml/mol	McGowan Method
pc	1975.31	kPa	Joback Method
rinpol	955.00		NIST Webbook
rinpol	955.00		NIST Webbook
ripol	1058.00		NIST Webbook
tb	449.76	K	Joback Method
tc	621.98	K	Joback Method
tf	168.73	K	Joback Method
vc	0.633	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	360.14	J/molxK	449.76	Joback Method
cpg	377.38	J/molxK	478.46	Joback Method
cpg	393.94	J/molxK	507.17	Joback Method
cpg	409.83	J/molxK	535.87	Joback Method
cpg	425.08	J/molxK	564.57	Joback Method

cpg	439.69	J/mol×K	593.28	Joback Method
cpg	453.69	J/mol×K	621.98	Joback Method
dvisc	0.0437057	Paxs	168.73	Joback Method
dvisc	0.0066714	Paxs	215.57	Joback Method
dvisc	0.0019921	Paxs	262.41	Joback Method
dvisc	0.0008579	Paxs	309.25	Joback Method
dvisc	0.0004611	Paxs	356.08	Joback Method
dvisc	0.0002863	Paxs	402.92	Joback Method
dvisc	0.0001963	Paxs	449.76	Joback Method
hvapt	44.90	kJ/mol	383.50	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C62016379&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C62016379&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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