

# Tridecane, 4,8-dimethyl-

<b>Other names:</b>	4,8-dimethyltridecane
<b>Inchi:</b>	InChI=1S/C15H32/c1-5-7-8-11-15(4)13-9-12-14(3)10-6-2/h14-15H,5-13H2,1-4H3
<b>InchiKey:</b>	IRMGDQSAWLAMIV-UHFFFAOYSA-N
<b>Formula:</b>	C15H32
<b>SMILES:</b>	CCCCC(C)CCCC(C)CCC
<b>Mol. weight [g/mol]:</b>	212.41
<b>CAS:</b>	55030-62-1

## Physical Properties

Property code	Value	Unit	Source
gf	70.54	kJ/mol	Joback Method
hf	-363.49	kJ/mol	Joback Method
hfus	27.56	kJ/mol	Joback Method
hvap	48.21	kJ/mol	Joback Method
log10ws	-5.62		Crippen Method
logp	5.809		Crippen Method
mcvol	222.210	ml/mol	McGowan Method
pc	1432.63	kPa	Joback Method
rinpol	1407.00		NIST Webbook
ripol	1488.00		NIST Webbook
tb	541.72	K	Joback Method
tc	706.30	K	Joback Method
tf	228.81	K	Joback Method
vc	0.864	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	558.41	J/molxK	541.72	Joback Method
cpg	577.82	J/molxK	569.15	Joback Method
cpg	596.45	J/molxK	596.58	Joback Method
cpg	614.33	J/molxK	624.01	Joback Method
cpg	631.47	J/molxK	651.44	Joback Method
cpg	647.90	J/molxK	678.87	Joback Method

cpg	663.64	J/mol×K	706.30	Joback Method
dvisc	0.0138942	Paxs	228.81	Joback Method
dvisc	0.0032300	Paxs	280.96	Joback Method
dvisc	0.0011857	Paxs	333.11	Joback Method
dvisc	0.0005709	Paxs	385.26	Joback Method
dvisc	0.0003272	Paxs	437.42	Joback Method
dvisc	0.0002112	Paxs	489.57	Joback Method
dvisc	0.0001483	Paxs	541.72	Joback Method

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C55030621&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C55030621&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>

## 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>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>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</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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