

# Tridecane, 2,6,10-trimethyl

<b>Inchi:</b>	InChI=1S/C16H34/c1-6-9-15(4)12-8-13-16(5)11-7-10-14(2)3/h14-16H,6-13H2,1-5H3
<b>InchiKey:</b>	MSRQAOLBRXEIHE-UHFFFAOYSA-N
<b>Formula:</b>	C16H34
<b>SMILES:</b>	CCCC(C)CCCC(C)CCCC(C)C
<b>Mol. weight [g/mol]:</b>	226.44
<b>CAS:</b>	3891-99-4

## Physical Properties

Property code	Value	Unit	Source
gf	76.52	kJ/mol	Joback Method
hf	-389.41	kJ/mol	Joback Method
hfus	26.63	kJ/mol	Joback Method
hvap	50.05	kJ/mol	Joback Method
log10ws	-5.79		Crippen Method
logp	6.055		Crippen Method
mcvol	236.300	ml/mol	McGowan Method
pc	1341.76	kPa	Joback Method
rinpol	1448.00		NIST Webbook
rinpol	1442.00		NIST Webbook
rinpol	1462.00		NIST Webbook
rinpol	1461.00		NIST Webbook
rinpol	1463.00		NIST Webbook
rinpol	1457.00		NIST Webbook
rinpol	1446.00		NIST Webbook
rinpol	1449.00		NIST Webbook
rinpol	1446.40		NIST Webbook
rinpol	1461.00		NIST Webbook
rinpol	1463.00		NIST Webbook
rinpol	1448.00		NIST Webbook
rinpol	1449.00		NIST Webbook
rinpol	1463.00		NIST Webbook
rinpol	1449.00		NIST Webbook
rinpol	1461.00		NIST Webbook
rinpol	1442.00		NIST Webbook
rinpol	1446.00		NIST Webbook
rinpol	1448.00		NIST Webbook
rinpol	1448.00		NIST Webbook

rinpol	1449.00		NIST Webbook
rinpol	1449.00		NIST Webbook
rinpol	1450.00		NIST Webbook
rinpol	1462.00		NIST Webbook
rinpol	1467.00		NIST Webbook
rinpol	1465.10		NIST Webbook
rinpol	1449.00		NIST Webbook
rinpol	1450.00		NIST Webbook
rinpol	1463.00		NIST Webbook
tb	564.16	K	Joback Method
tc	730.75	K	Joback Method
tf	225.08	K	Joback Method
vc	0.913	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	612.41	J/molxK	564.16	Joback Method
cpg	705.63	J/molxK	702.98	Joback Method
cpg	688.56	J/molxK	675.22	Joback Method
cpg	670.73	J/molxK	647.45	Joback Method
cpg	652.10	J/molxK	619.69	Joback Method
cpg	632.67	J/molxK	591.92	Joback Method
cpg	721.96	J/molxK	730.75	Joback Method
dvisc	0.0001254	Paxs	564.16	Joback Method
dvisc	0.0001836	Paxs	507.65	Joback Method
dvisc	0.0002956	Paxs	451.13	Joback Method
dvisc	0.0005456	Paxs	394.62	Joback Method
dvisc	0.0012360	Paxs	338.11	Joback Method
dvisc	0.0038875	Paxs	281.59	Joback Method
dvisc	0.0217376	Paxs	225.08	Joback Method

## Sources

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**Joback Method:**

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

## 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>rinpola:</b>	Non-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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