

# 2-Tridecene, (E)

<b>Other names:</b>	(2E)-2-Tridecene trans-2-Tridecene (E)-2-Tridecene
<b>Inchi:</b>	InChI=1S/C13H26/c1-3-5-7-9-11-13-12-10-8-6-4-2/h3,5H,4,6-13H2,1-2H3/b5-3+
<b>InchiKey:</b>	XWVHBWQEYOROBH-HWKANZROSA-N
<b>Formula:</b>	C13H26
<b>SMILES:</b>	CC=CCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	182.35
<b>CAS:</b>	41446-58-6

## Physical Properties

Property code	Value	Unit	Source
gf	138.80	kJ/mol	Joback Method
hf	-194.43	kJ/mol	Joback Method
hfus	29.63	kJ/mol	Joback Method
hvap	44.49	kJ/mol	Joback Method
log10ws	-5.12		Crippen Method
logp	5.093		Crippen Method
mcpol	189.730	ml/mol	McGowan Method
pc	1716.03	kPa	Joback Method
ripol	1297.00		NIST Webbook
ripol	1297.00		NIST Webbook
ripol	1305.00		NIST Webbook
ripol	1301.00		NIST Webbook
ripol	1297.00		NIST Webbook
ripol	1297.00		NIST Webbook
ripol	1297.70		NIST Webbook
ripol	1302.00		NIST Webbook
ripol	1297.00		NIST Webbook
ripol	1297.00		NIST Webbook
ripol	1360.00		NIST Webbook
ripol	1356.00		NIST Webbook
ripol	1358.00		NIST Webbook
ripol	1348.00		NIST Webbook
ripol	1357.00		NIST Webbook
ripol	1358.00		NIST Webbook
ripol	1357.00		NIST Webbook

ripol	1365.00		NIST Webbook
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ripol	1366.00		NIST Webbook
ripol	1355.00		NIST Webbook
ripol	1360.00		NIST Webbook
ripol	1361.00		NIST Webbook
ripol	1348.00		NIST Webbook
ripol	1362.00		NIST Webbook
ripol	1362.00		NIST Webbook
ripol	1348.00		NIST Webbook
ripol	1357.90		NIST Webbook
ripol	1349.00		NIST Webbook
ripol	1358.10		NIST Webbook
ripol	1343.30		NIST Webbook
ripol	1347.50		NIST Webbook
ripol	1355.00		NIST Webbook
ripol	1355.90		NIST Webbook
ripol	1344.10		NIST Webbook
ripol	1348.40		NIST Webbook
ripol	1357.20		NIST Webbook
ripol	1365.00		NIST Webbook
ripol	1365.00		NIST Webbook
ripol	1365.00		NIST Webbook
ripol	1366.00		NIST Webbook
ripol	1350.40		NIST Webbook
ripol	1356.00		NIST Webbook
ripol	1354.90		NIST Webbook
ripol	1366.00		NIST Webbook
ripol	1362.00		NIST Webbook
ripol	1358.10		NIST Webbook
ripol	1344.10		NIST Webbook
ripol	1353.10		NIST Webbook
ripol	1350.40		NIST Webbook
ripol	1357.00		NIST Webbook
ripol	1361.00		NIST Webbook
ripol	1365.00		NIST Webbook
tb	501.00	K	Joback Method
tc	667.97	K	Joback Method
tf	231.19	K	Joback Method
vc	0.744	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	439.01	J/molxK	501.00	Joback Method
cpg	456.28	J/molxK	528.83	Joback Method
cpg	472.83	J/molxK	556.66	Joback Method
cpg	488.69	J/molxK	584.48	Joback Method
cpg	503.87	J/molxK	612.31	Joback Method
cpg	518.42	J/molxK	640.14	Joback Method
cpg	532.34	J/molxK	667.97	Joback Method
dvisc	0.0056599	Paxs	231.19	Joback Method
dvisc	0.0019529	Paxs	276.16	Joback Method
dvisc	0.0009078	Paxs	321.13	Joback Method
dvisc	0.0005093	Paxs	366.10	Joback Method
dvisc	0.0003243	Paxs	411.06	Joback Method
dvisc	0.0002257	Paxs	456.03	Joback Method
dvisc	0.0001677	Paxs	501.00	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C41446586&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C41446586&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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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