

# 4-Tridecene, (E)

<b>Other names:</b>	trans-4-tridecene (E)-4-Tridecene
<b>Inchi:</b>	InChI=1S/C13H26/c1-3-5-7-9-11-13-12-10-8-6-4-2/h7,9H,3-6,8,10-13H2,1-2H3/b9-7+
<b>InchiKey:</b>	UJZLNVCZGZKIHR-VQHVLOKHSA-N
<b>Formula:</b>	C13H26
<b>SMILES:</b>	CCCC=CCCCCCCC
<b>Mol. weight [g/mol]:</b>	182.35
<b>CAS:</b>	41446-55-3

## 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
mcvol	189.730	ml/mol	McGowan Method
pc	1716.03	kPa	Joback Method
ripol	1289.00		NIST Webbook
ripol	1280.00		NIST Webbook
ripol	1280.00		NIST Webbook
ripol	1281.00		NIST Webbook
ripol	1280.00		NIST Webbook
ripol	1280.00		NIST Webbook
ripol	1280.00		NIST Webbook
ripol	1280.00		NIST Webbook
ripol	1279.90		NIST Webbook
ripol	1337.00		NIST Webbook
ripol	1337.00		NIST Webbook
ripol	1337.00		NIST Webbook
ripol	1323.00		NIST Webbook
ripol	1328.00		NIST Webbook
ripol	1328.00		NIST Webbook
ripol	1330.00		NIST Webbook
ripol	1324.00		NIST Webbook
ripol	1330.00		NIST Webbook
ripol	1330.00		NIST Webbook

ripol	1331.00		NIST Webbook
ripol	1338.00		NIST Webbook
ripol	1337.00		NIST Webbook
ripol	1337.00		NIST Webbook
ripol	1338.00		NIST Webbook
ripol	1339.00		NIST Webbook
ripol	1332.00		NIST Webbook
ripol	1332.00		NIST Webbook
ripol	1333.00		NIST Webbook
ripol	1333.00		NIST Webbook
ripol	1334.00		NIST Webbook
ripol	1334.00		NIST Webbook
ripol	1322.40		NIST Webbook
ripol	1329.60		NIST Webbook
ripol	1323.70		NIST Webbook
ripol	1329.80		NIST Webbook
ripol	1319.10		NIST Webbook
ripol	1323.10		NIST Webbook
ripol	1328.10		NIST Webbook
ripol	1328.40		NIST Webbook
ripol	1320.80		NIST Webbook
ripol	1339.00		NIST Webbook
ripol	1330.20		NIST Webbook
ripol	1324.20		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>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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C41446553&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C41446553&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>

## 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>ripol:</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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