

# Decane, 5,6-diethyl

<b>Inchi:</b>	InChI=1S/C14H30/c1-5-9-11-13(7-3)14(8-4)12-10-6-2/h13-14H,5-12H2,1-4H3
<b>InchiKey:</b>	VCIFLYRPDSIJRB-UHFFFAOYSA-N
<b>Formula:</b>	C14H30
<b>SMILES:</b>	CCCCC(CC)C(CC)CCCC
<b>Mol. weight [g/mol]:</b>	198.39

## Physical Properties

Property code	Value	Unit	Source
gf	62.12	kJ/mol	Joback Method
hf	-342.85	kJ/mol	Joback Method
hfus	24.97	kJ/mol	Joback Method
hvap	45.98	kJ/mol	Joback Method
log10ws	-5.20		Crippen Method
logp	5.419		Crippen Method
mcvol	208.120	ml/mol	McGowan Method
pc	1542.71	kPa	Joback Method
rinsol	1256.00		NIST Webbook
tb	518.84	K	Joback Method
tc	684.31	K	Joback Method
tf	217.54	K	Joback Method
vc	0.807	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	506.22	J/molxK	518.84	Joback Method
cpg	525.09	J/molxK	546.42	Joback Method
cpg	543.22	J/molxK	574.00	Joback Method
cpg	560.62	J/molxK	601.58	Joback Method
cpg	577.31	J/molxK	629.15	Joback Method
cpg	593.31	J/molxK	656.73	Joback Method
cpg	608.64	J/molxK	684.31	Joback Method
dvisc	0.0154332	Paxs	217.54	Joback Method
dvisc	0.0035509	Paxs	267.76	Joback Method

dvisc	0.0012995	Paxs	317.97	Joback Method
dvisc	0.0006256	Paxs	368.19	Joback Method
dvisc	0.0003589	Paxs	418.41	Joback Method
dvisc	0.0002320	Paxs	468.62	Joback Method
dvisc	0.0001631	Paxs	518.84	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=R8923&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R8923&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>rinpol:</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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