

# 3,4-Dimethyl-3,4-diethyl-hexane

<b>Inchi:</b>	InChI=1S/C12H26/c1-7-11(5,8-2)12(6,9-3)10-4/h7-10H2,1-6H3
<b>InchiKey:</b>	NTQKWVJMJSYRDX-UHFFFAOYSA-N
<b>Formula:</b>	C12H26
<b>SMILES:</b>	CCC(C)(CC)C(C)(CC)CC
<b>Mol. weight [g/mol]:</b>	170.33

## Physical Properties

Property code	Value	Unit	Source
gf	55.84	kJ/mol	Joback Method
hf	-308.51	kJ/mol	Joback Method
hfus	12.01	kJ/mol	Joback Method
hvap	39.71	kJ/mol	Joback Method
log10ws	-4.36		Crippen Method
logp	4.639		Crippen Method
mcvol	179.940	ml/mol	McGowan Method
pc	1838.84	kPa	Joback Method
rinqol	1186.60		NIST Webbook
tb	467.50	K	Joback Method
tc	648.06	K	Joback Method
tf	229.84	K	Joback Method
vc	0.685	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	411.01	J/molxK	467.50	Joback Method
cpg	498.99	J/molxK	617.96	Joback Method
cpg	483.25	J/molxK	587.87	Joback Method
cpg	466.62	J/molxK	557.78	Joback Method
cpg	449.07	J/molxK	527.69	Joback Method
cpg	430.55	J/molxK	497.59	Joback Method
cpg	513.90	J/molxK	648.06	Joback Method
dvisc	0.0002139	Paxs	467.50	Joback Method
dvisc	0.0003129	Paxs	427.89	Joback Method

dvisc	0.0004947	Paxs	388.28	Joback Method
dvisc	0.0008679	Paxs	348.67	Joback Method
dvisc	0.0017587	Paxs	309.06	Joback Method
dvisc	0.0043865	Paxs	269.45	Joback Method
dvisc	0.0149911	Paxs	229.84	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=R173352&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R173352&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>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

Latest version available from:

<https://www.chemeo.com/cid/76-201-4/3-4-Dimethyl-3-4-diethyl-hexane.pdf>

Generated by Cheméo on 2024-04-26 07:36:42.5137995 +0000 UTC m=+16406251.434376815.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.