

# Decane, 2,2,8-trimethyl-

<b>Inchi:</b>	InChI=1S/C13H28/c1-6-12(2)10-8-7-9-11-13(3,4)5/h12H,6-11H2,1-5H3
<b>InchiKey:</b>	ZXPYELGEJQYCMG-UHFFFAOYSA-N
<b>Formula:</b>	C13H28
<b>SMILES:</b>	CCC(C)CCCCC(C)(C)C
<b>Mol. weight [g/mol]:</b>	184.36
<b>CAS:</b>	62238-01-1

## Physical Properties

Property code	Value	Unit	Source
gf	58.98	kJ/mol	Joback Method
hf	-325.68	kJ/mol	Joback Method
hfus	18.49	kJ/mol	Joback Method
hvap	42.85	kJ/mol	Joback Method
log10ws	-4.78		Crippen Method
logp	5.029		Crippen Method
mcvol	194.030	ml/mol	McGowan Method
pc	1681.03	kPa	Joback Method
tb	493.17	K	Joback Method
tc	665.63	K	Joback Method
tf	223.69	K	Joback Method
vc	0.747	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	457.85	J/molxK	493.17	Joback Method
cpg	545.16	J/molxK	636.89	Joback Method
cpg	529.30	J/molxK	608.14	Joback Method
cpg	512.67	J/molxK	579.40	Joback Method
cpg	495.24	J/molxK	550.66	Joback Method
cpg	476.98	J/molxK	521.91	Joback Method
cpg	560.28	J/molxK	665.63	Joback Method
dvisc	0.0001834	Paxs	493.17	Joback Method
dvisc	0.0002650	Paxs	448.26	Joback Method

dvisc	0.0004157	Paxs	403.34	Joback Method
dvisc	0.0007302	Paxs	358.43	Joback Method
dvisc	0.0015069	Paxs	313.52	Joback Method
dvisc	0.0039629	Paxs	268.60	Joback Method
dvisc	0.0153653	Paxs	223.69	Joback Method

## Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C62238011&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C62238011&amp;Units=SI</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>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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