

# Dodecane, 6-butyl

<b>Inchi:</b>	InChI=1S/C16H34/c1-4-7-10-12-15-16(13-9-6-3)14-11-8-5-2/h16H,4-15H2,1-3H3
<b>InchiKey:</b>	SVMFVKRBBQFZNS-UHFFFAOYSA-N
<b>Formula:</b>	C16H34
<b>SMILES:</b>	CCCCCCC(CCCC)CCCCC
<b>Mol. weight [g/mol]:</b>	226.44

## Physical Properties

Property code	Value	Unit	Source
gf	81.40	kJ/mol	Joback Method
hf	-378.85	kJ/mol	Joback Method
hfus	33.67	kJ/mol	Joback Method
hvap	50.82	kJ/mol	Joback Method
log10ws	-6.28		Crippen Method
logp	6.344		Crippen Method
mcvol	236.300	ml/mol	McGowan Method
pc	1326.17	kPa	Joback Method
rinpol	1498.00		NIST Webbook
rinpol	1484.00		NIST Webbook
rinpol	1498.00		NIST Webbook
tb	565.04	K	Joback Method
tc	726.28	K	Joback Method
tf	255.08	K	Joback Method
vc	0.925	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	611.96	J/molxK	565.04	Joback Method
cpg	631.47	J/molxK	591.91	Joback Method
cpg	650.21	J/molxK	618.79	Joback Method
cpg	668.20	J/molxK	645.66	Joback Method
cpg	685.47	J/molxK	672.53	Joback Method
cpg	702.03	J/molxK	699.40	Joback Method
cpg	717.90	J/molxK	726.28	Joback Method

dvisc	0.0077044	Paxs	255.08	Joback Method
dvisc	0.0022640	Paxs	306.74	Joback Method
dvisc	0.0009470	Paxs	358.40	Joback Method
dvisc	0.0004934	Paxs	410.06	Joback Method
dvisc	0.0002974	Paxs	461.72	Joback Method
dvisc	0.0001985	Paxs	513.38	Joback Method
dvisc	0.0001427	Paxs	565.04	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R8729&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R8729&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307i">http://pubs.acs.org/doi/abs/10.1021/ci990307i</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>mvol:</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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