

# 9H-Fluorene, 9-butyl

<b>Other names:</b>	9-n-butylfluorene
<b>Inchi:</b>	InChI=1S/C17H18/c1-2-3-8-13-14-9-4-6-11-16(14)17-12-7-5-10-15(13)17/h4-7,9-13H,2-3
<b>InchiKey:</b>	RBDADLSAYYPJAN-UHFFFAOYSA-N
<b>Formula:</b>	C17H18
<b>SMILES:</b>	CCCCC1c2ccccc2-c2ccccc21
<b>Mol. weight [g/mol]:</b>	222.32

## Physical Properties

Property code	Value	Unit	Source
gf	382.77	kJ/mol	Joback Method
hf	141.03	kJ/mol	Joback Method
hfus	29.43	kJ/mol	Joback Method
hvap	58.88	kJ/mol	Joback Method
log10ws	-6.06		Crippen Method
logp	4.989		Crippen Method
mvol	192.010	ml/mol	McGowan Method
pc	2187.68	kPa	Joback Method
rinpol	328.99		NIST Webbook
rinpol	328.99		NIST Webbook
tb	649.88	K	Joback Method
tc	877.93	K	Joback Method
tf	384.21	K	Joback Method
vc	0.745	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	504.92	J/mol×K	649.88	Joback Method
cpg	522.24	J/mol×K	687.89	Joback Method
cpg	538.36	J/mol×K	725.90	Joback Method
cpg	553.38	J/mol×K	763.90	Joback Method
cpg	567.44	J/mol×K	801.91	Joback Method
cpg	580.63	J/mol×K	839.92	Joback Method
cpg	593.09	J/mol×K	877.93	Joback Method

dvisc	0.0016570	Paxs	384.21	Joback Method
dvisc	0.0012893	Paxs	428.49	Joback Method
dvisc	0.0010515	Paxs	472.77	Joback Method
dvisc	0.0008880	Paxs	517.05	Joback Method
dvisc	0.0007702	Paxs	561.32	Joback Method
dvisc	0.0006821	Paxs	605.60	Joback Method
dvisc	0.0006141	Paxs	649.88	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R15589&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R15589&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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