9H-Fluorene, 9-butyl

Other names: 9-n-butylfluorene
Inchi: 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
InchiKey: RBDADLSAYYPJAN-UHFFFAOYSA-N
Formula: C17H18
SMILES: CCCCC1c2ccccc2-c2ccccc21
Mol. weight [g/mol]: 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
mcvol	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	m3/kmol	Joback Method

Temperature Dependent Properties

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

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

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R15589&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume