

9H-Fluorene, 9-propyl-

Other names:	9-n-Propylfluorene
Inchi:	InChI=1S/C16H16/c1-2-7-12-13-8-3-5-10-15(13)16-11-6-4-9-14(12)16/h3-6,8-12H,2,7H2
InchiKey:	ZTBWLZNGULENBG-UHFFFAOYSA-N
Formula:	C16H16
SMILES:	CCCC1c2ccccc2-c2ccccc21
Mol. weight [g/mol]:	208.30
CAS:	4037-45-0

Physical Properties

Property code	Value	Unit	Source
gf	374.35	kJ/mol	Joback Method
hf	161.67	kJ/mol	Joback Method
hfus	26.84	kJ/mol	Joback Method
hvap	56.66	kJ/mol	Joback Method
log10ws	-5.64		Crippen Method
logp	4.599		Crippen Method
mcvol	177.920	ml/mol	McGowan Method
pc	2398.22	kPa	Joback Method
rinpol	318.01		NIST Webbook
rinpol	318.01		NIST Webbook
tb	627.00	K	Joback Method
tc	859.58	K	Joback Method
tf	372.94	K	Joback Method
vc	0.689	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	453.66	J/molxK	627.00	Joback Method
cpg	527.10	J/molxK	820.82	Joback Method
cpg	514.40	J/molxK	782.05	Joback Method
cpg	500.83	J/molxK	743.29	Joback Method
cpg	486.26	J/molxK	704.53	Joback Method
cpg	470.57	J/molxK	665.76	Joback Method

cpg	539.04	J/mol×K	859.58	Joback Method
dvisc	0.0006366	Paxs	627.00	Joback Method
dvisc	0.0007014	Paxs	584.66	Joback Method
dvisc	0.0007845	Paxs	542.31	Joback Method
dvisc	0.0008943	Paxs	499.97	Joback Method
dvisc	0.0010445	Paxs	457.63	Joback Method
dvisc	0.0012591	Paxs	415.28	Joback Method
dvisc	0.0015837	Paxs	372.94	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4037450&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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

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