

9-n-hexylfluorene

Inchi:	InChI=1S/C19H22/c1-2-3-4-5-10-15-16-11-6-8-13-18(16)19-14-9-7-12-17(15)19/h6-9,11-
InchiKey:	LZHSIVAEFPMRNK-UHFFFAOYSA-N
Formula:	C19H22
SMILES:	CCCCCCC1c2ccccc2-c2ccccc21
Mol. weight [g/mol]:	250.38

Physical Properties

Property code	Value	Unit	Source
gf	399.61	kJ/mol	Joback Method
hf	99.75	kJ/mol	Joback Method
hfus	34.60	kJ/mol	Joback Method
hvap	63.33	kJ/mol	Joback Method
log10ws	-6.90		Crippen Method
logp	5.769		Crippen Method
mcvol	220.190	ml/mol	McGowan Method
pc	1841.99	kPa	Joback Method
rinpola	348.54		NIST Webbook
tb	695.64	K	Joback Method
tc	915.64	K	Joback Method
tf	406.75	K	Joback Method
vc	0.857	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	611.34	J/molxK	695.64	Joback Method
cpg	690.71	J/molxK	878.97	Joback Method
cpg	676.69	J/molxK	842.30	Joback Method
cpg	661.85	J/molxK	805.64	Joback Method
cpg	646.08	J/molxK	768.97	Joback Method
cpg	629.28	J/molxK	732.31	Joback Method
cpg	704.03	J/molxK	915.64	Joback Method
dvisc	0.0005541	Paxs	695.64	Joback Method
dvisc	0.0006246	Paxs	647.49	Joback Method

dvisc	0.0007178	Paxs	599.34	Joback Method
dvisc	0.0008453	Paxs	551.20	Joback Method
dvisc	0.0010270	Paxs	503.05	Joback Method
dvisc	0.0013002	Paxs	454.90	Joback Method
dvisc	0.0017407	Paxs	406.75	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R15593&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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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