

9-Ethylidene fluorene

Inchi:	InChI=1S/C15H12/c1-2-11-12-7-3-5-9-14(12)15-10-6-4-8-13(11)15/h2-10H,1H3
InchiKey:	OFOJRCNUMYVCSD-UHFFFAOYSA-N
Formula:	C15H12
SMILES:	CC=C1c2ccccc2-c2ccccc21
Mol. weight [g/mol]:	192.26

Physical Properties

Property code	Value	Unit	Source
gf	419.10	kJ/mol	Joback Method
hf	278.68	kJ/mol	Joback Method
hfus	23.50	kJ/mol	Joback Method
hvap	55.53	kJ/mol	Joback Method
log10ws	-5.28		Crippen Method
logp	4.119		Crippen Method
mcvol	159.530	ml/mol	McGowan Method
pc	2817.33	kPa	Joback Method
rinpol	296.00		NIST Webbook
tb	615.43	K	Joback Method
tc	860.23	K	Joback Method
tf	376.27	K	Joback Method
vc	0.617	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	380.13	J/molxK	615.43	Joback Method
cpg	394.78	J/molxK	656.23	Joback Method
cpg	408.26	J/molxK	697.03	Joback Method
cpg	420.69	J/molxK	737.83	Joback Method
cpg	432.24	J/molxK	778.63	Joback Method
cpg	443.04	J/molxK	819.43	Joback Method
cpg	453.23	J/molxK	860.23	Joback Method
dvisc	0.0013360	Paxs	376.27	Joback Method
dvisc	0.0010675	Paxs	416.13	Joback Method

dvisc	0.0008871	Paxs	455.99	Joback Method
dvisc	0.0007595	Paxs	495.85	Joback Method
dvisc	0.0006654	Paxs	535.71	Joback Method
dvisc	0.0005937	Paxs	575.57	Joback Method
dvisc	0.0005377	Paxs	615.43	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R411580&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
mccvol:	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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