9H-Fluorene, 2-ethyl-

Other names: 2-Ethylfluorene
Fluorene, 2-ethyl
Inchi: InChI=1S/C15H14/c1-2-11-7-8-15-13(9-11)10-12-5-3-4-6-14(12)15/h3-9H,2,10H2,1H3
InchiKey: IAGPYKKRRMNDCQ-UHFFFAOYSA-N
Formula: C15H14
SMILES: CCc1ccc2c(c1)Cc1ccccc1-2
Mol. weight [g/mol]: 194.27
CAS: 1207-20-1

Physical Properties

Property code	Value	Unit	Source
gf	364.01	kJ/mol	Joback Method
hf	191.18	kJ/mol	Joback Method
hfus	22.79	kJ/mol	Joback Method
hvap	55.40	kJ/mol	Joback Method
log10ws	-5.22		Crippen Method
logp	3.820		Crippen Method
mcvol	163.830	ml/mol	McGowan Method
pc	2690.21	kPa	Joback Method
rinpol	1823.00		NIST Webbook
tb	613.77	K	Joback Method
tc	852.06	K	Joback Method
tf	378.43	K	Joback Method
vc	0.633	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	401.18	J/mol×K	613.77	Joback Method
cpg	468.65	J/mol×K	812.35	Joback Method
cpg	457.02	J/mol×K	772.63	Joback Method
cpg	444.57	J/mol×K	732.92	Joback Method
cpg	431.20	J/mol×K	693.20	Joback Method
cpg	416.78	J/mol×K	653.49	Joback Method

cpg	479.61	J/mol×K	852.06	Joback Method
dvisc	0.0005702	Pa×s	613.77	Joback Method
dvisc	0.0006331	Pa×s	574.55	Joback Method
dvisc	0.0007138	Pa×s	535.32	Joback Method
dvisc	0.0008203	Pa×s	496.10	Joback Method
dvisc	0.0009653	Pa×s	456.88	Joback Method
dvisc	0.0011713	Pa×s	417.65	Joback Method
dvisc	0.0014794	Pa×s	378.43	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1207201&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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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