Thiophene, 2-ethyltetrahydro-

Other names:	Tetrahydro-2-ethylthiophene
	2-Ethyltetrahydrothiophene
	2-Ethylthiophane
	2-Ethyl-thiacyclopentane
	2-Ethyl-thiolane
Inchi:	InChI=1S/C6H12S/c1-2-6-4-3-5-7-6/h6H,2-5H2,1H3
InchiKey:	FQAXENNJSLPYOP-UHFFFAOYSA-N
Formula:	C6H12S
SMILES:	CCC1CCCS1
Mol. weight [g/mol]:	116.22
CAS:	1551-32-2

Physical Properties

Property code	Value	Unit	Source
gf	76.05	kJ/mol	Joback Method
hf	-61.43	kJ/mol	Joback Method
hfus	8.89	kJ/mol	Joback Method
hvap	35.02	kJ/mol	Joback Method
log10ws	-2.22		Crippen Method
logp	2.292		Crippen Method
mcvol	100.890	ml/mol	McGowan Method
pc	3810.39	kPa	Joback Method
rinpol	945.00		NIST Webbook
rinpol	926.00		NIST Webbook
tb	399.79	K	Joback Method
tc	612.75	K	Joback Method
tf	251.73	K	Joback Method
vc	0.358	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	181.81	J/mol×K	399.79	Joback Method
cpg	196.08	J/mol×K	435.28	Joback Method

cpg	209.57	J/mol×K	470.78	Joback Method
cpg	222.32	J/mol×K	506.27	Joback Method
cpg	234.36	J/mol×K	541.76	Joback Method
cpg	245.71	J/mol×K	577.25	Joback Method
cpg	256.40	J/mol×K	612.75	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1551322&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
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