Ethyl furfuryl sulfide

Inchi: InChI=1S/C8H12S/c1-2-9-7-8-5-3-4-6-8/h3-5H,2,6-7H2,1H3
InchiKey: PZGZDXOKXUUMRO-UHFFFAOYSA-N
Formula: C8H12S
SMILES: CCSCC1=CC=CC1
Mol. weight [g/mol]: 140.25

Physical Properties

Property code	Value	Unit	Source
gf	144.15	kJ/mol	Joback Method
hf	18.33	kJ/mol	Joback Method
hfus	15.53	kJ/mol	Joback Method
hvap	42.03	kJ/mol	Joback Method
log10ws	-2.66		Crippen Method
logp	2.626		Crippen Method
mcvol	120.470	ml/mol	McGowan Method
pc	3464.28	kPa	Joback Method
rinpol	1071.00		NIST Webbook
rinpol	1069.00		NIST Webbook
rinpol	1067.00		NIST Webbook
rinpol	1058.00		NIST Webbook
rinpol	1059.00		NIST Webbook
rinpol	1066.00		NIST Webbook
rinpol	1057.00		NIST Webbook
rinpol	1067.00		NIST Webbook
rinpol	1059.00		NIST Webbook
tb	474.47	K	Joback Method
tc	697.69	K	Joback Method
tf	243.50	K	Joback Method
vc	0.452	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	239.68	J/mol×K	474.47	Joback Method

cpg	253.39	J/mol×K	511.67	Joback Method
cpg	266.27	J/mol×K	548.88	Joback Method
cpg	278.36	J/mol×K	586.08	Joback Method
cpg	289.70	J/mol×K	623.29	Joback Method
cpg	300.32	J/mol×K	660.49	Joback Method
cpg	310.26	J/mol×K	697.69	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R43869&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

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