

3-(Thiiran-2-yl)propanenitrile

Other names:	3,4-Epoxythiobutyl cyanide
Inchi:	InChI=1S/C5H7NS/c6-3-1-2-5-4-7-5/h5H,1-2,4H2
InchiKey:	ZAGXORSINWAUSP-UHFFFAOYSA-N
Formula:	C5H7NS
SMILES:	N#CCCC1CS1
Mol. weight [g/mol]:	113.18

Physical Properties

Property code	Value	Unit	Source
hfus	12.00	kJ/mol	Joback Method
logp	1.406		Crippen Method
mcvol	88.180	ml/mol	McGowan Method
rinpol	1086.00		NIST Webbook
rinpol	1124.00		NIST Webbook
rinpol	1122.50		NIST Webbook
rinpol	1075.00		NIST Webbook
rinpol	1086.00		NIST Webbook
rinpol	1122.50		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	173.95	J/mol×K	470.45	Joback Method
cpg	182.86		507.49	Joback Method
cpg	191.15		544.53	Joback Method
cpg	198.86		581.57	Joback Method
cpg	206.03		618.61	Joback Method
cpg	212.72		655.65	Joback Method
cpg	218.97		692.69	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C54096456&Units=SI

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices

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