

2,7-Dithianonane

Inchi:

InChI=1S/C7H16S2/c1-3-9-7-5-4-6-8-2/h3-7H2,1-2H3

InchiKey:

HWFOYKFNHAOZBB-UHFFFAOYSA-N

Formula:

C7H16S2

SMILES:

CCSCCCCSC

Mol. weight [g/mol]:

164.33

Physical Properties

Property code	Value	Unit	Source
gf	74.30	kJ/mol	Joback Method
hf	-104.07	kJ/mol	Joback Method
hfus	22.15	kJ/mol	Joback Method
hvap	44.81	kJ/mol	Joback Method
log10ws	-2.52		Crippen Method
logp	2.883		Crippen Method
mcvol	142.190	ml/mol	McGowan Method
pc	2902.98	kPa	Joback Method
rinpol	1308.00		NIST Webbook
rinpol	1308.00		NIST Webbook
tb	497.12	K	Joback Method
tc	706.23	K	Joback Method
tf	237.45	K	Joback Method
vc	0.535	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	296.36	J/molxK	497.12	Joback Method
cpg	309.83	J/molxK	531.97	Joback Method
cpg	322.69	J/molxK	566.82	Joback Method
cpg	334.95	J/molxK	601.67	Joback Method
cpg	346.61	J/molxK	636.52	Joback Method
cpg	357.67	J/molxK	671.38	Joback Method
cpg	368.15	J/molxK	706.23	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R155938&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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