2-Thiophenecarboxylic acid hydrazide

Other names:	Thiophene-2-carboxylic acid hydrazide
	2-Thenoic hydrazide
	Thiophene-2-carboxylic hydrazide
	2-Thiophenecarboxylic hydrazide
	2-Thenoylhydrazine
	2-Thienylcarboxylic acid hydrazide
	2-Thiophenecarbohydrazonic acid
	2-Thienyl hydrazide
	NSC 653
	Thiophene-2-carbohydrazide
Inchi:	InChI=1S/C5H6N2OS/c6-7-5(8)4-2-1-3-9-4/h1-3H,6H2,(H,7,8)
InchiKey:	SOGBOGBTIKMGFS-UHFFFAOYSA-N
Formula:	C5H6N2OS
SMILES:	NNC(=O)c1cccs1
Mol. weight [g/mol]:	142.18
CAS:	2361-27-5

Physical Properties

Property code	Value	Unit	Source
hsub	113.30 ± 0.50	kJ/mol	NIST Webbook
log10ws	-1.58		Crippen Method
logp	0.352		Crippen Method
mcvol	99.730	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	110.70 ± 0.50	kJ/mol	350.00	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2361275&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume