

# 3-Thiophenecarboxylic acid

<b>Other names:</b>	.beta.-thiophenecarboxylic acid .beta.-thiophenic acid 3-Thenoic acid Thiophene-3-carboxylic acid «beta»-Thiophenecarboxylic acid «beta»-Thiophenic acid Â«betaÂ»-Thiophenecarboxylic acid Â«betaÂ»-Thiophenic acid
<b>Inchi:</b>	InChI=1S/C5H4O2S/c6-5(7)4-1-2-8-3-4/h1-3H,(H,6,7)
<b>InchiKey:</b>	YNVOMSDITJMNET-UHFFFAOYSA-N
<b>Formula:</b>	C5H4O2S
<b>SMILES:</b>	O=C(O)c1ccsc1
<b>Mol. weight [g/mol]:</b>	128.15
<b>CAS:</b>	88-13-1

## Physical Properties

Property code	Value	Unit	Source
log10ws	-1.47		Aqueous Solubility Prediction Method
logp	1.446		Crippen Method
mcvol	85.640	ml/mol	McGowan Method
tf	411.65	K	Aqueous Solubility Prediction Method
tf	411.85	K	Solid-liquid equilibrium and thermodynamic research of 3-Thiophenecarboxylic acid in (water + acetic acid) binary solvent mixtures

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	18.30	kJ/mol	412.90	NIST Webbook

# Sources

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307I>

Solid-liquid equilibrium and thermodynamic research of Aqueous Solubility Prediction Method: acetic acid) binary solvent mixtures: McGowan Method:

<https://www.doi.org/10.1016/j.tca.2014.11.008>

<http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

<http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C88131&Units=SI>

## Legend

**hfust:** Enthalpy of fusion at a given temperature

**log10ws:** Log10 of Water solubility in mol/l

**logp:** Octanol/Water partition coefficient

**mcvol:** McGowan's characteristic volume

**tf:** Normal melting (fusion) point

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