

# Ethyl 1,3-dithiane-2-carboxylate

<b>Other names:</b>	Carboethoxy-1,3-dithiane 2-Carboethoxy-1,3-dithiane 1,3-Dithiane-2-carboxylic acid ethyl ester
<b>Inchi:</b>	InChI=1S/C7H12O2S2/c1-2-9-6(8)7-10-4-3-5-11-7/h7H,2-5H2,1H3
<b>InchiKey:</b>	ANEDZEVDORCLPM-UHFFFAOYSA-N
<b>Formula:</b>	C7H12O2S2
<b>SMILES:</b>	CCOC(=O)C1SCCS1
<b>Mol. weight [g/mol]:</b>	192.30
<b>CAS:</b>	20462-00-4

## Physical Properties

Property code	Value	Unit	Source
gf	-121.69	kJ/mol	Joback Method
hf	-287.77	kJ/mol	Joback Method
hfus	15.82	kJ/mol	Joback Method
hvap	52.39	kJ/mol	Joback Method
log10ws	-1.88		Crippen Method
logp	1.746		Crippen Method
mcvol	138.770	ml/mol	McGowan Method
pc	3668.65	kPa	Joback Method
tb	551.06	K	Joback Method
tc	792.65	K	Joback Method
tf	415.09	K	Joback Method
vc	0.476	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	309.85	J/molxK	551.06	Joback Method
cpg	324.68	J/molxK	591.32	Joback Method
cpg	338.59	J/molxK	631.59	Joback Method
cpg	351.60	J/molxK	671.85	Joback Method
cpg	363.72	J/molxK	712.12	Joback Method
cpg	374.97	J/molxK	752.38	Joback Method

cpg

385.36

J/mol×K

792.65

Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	349.20	K	0.03	NIST Webbook

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C20462004&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C20462004&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/69-606-3/Ethyl-1-3-dithiane-2-carboxylate.pdf>

Generated by Cheméo on 2024-04-24 04:35:42.219428179 +0000 UTC m=+16222591.140005491.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.