

# 2,2-Bis(ethylsulfonyl)propane

<b>Other names:</b>	Propane, 2,2-bis(ethylsulfonyl)- Acetone diethyl sulfone Acetone, bis(ethyl sulfone) Diethylsulfondimethylmethane Propanediethyl sulfone Sulfonal Sulfonmethane Sulphonal 2-Propanone, bis(ethyl sulfone) 2,2-Bis(ethylsulphonyl)-propane NSC 26248
<b>Inchi:</b>	InChI=1S/C7H16O4S2/c1-5-12(8,9)7(3,4)13(10,11)6-2/h5-6H2,1-4H3
<b>InchiKey:</b>	CESKLHVYGRFMFP-UHFFFAOYSA-N
<b>Formula:</b>	C7H16O4S2
<b>SMILES:</b>	CCS(=O)(=O)C(C)(C)S(=O)(=O)CC
<b>Mol. weight [g/mol]:</b>	228.33
<b>CAS:</b>	115-24-2

## Physical Properties

Property code	Value	Unit	Source
gf	-926.18	kJ/mol	Joback Method
hf	-1103.26	kJ/mol	Joback Method
hfus	29.23	kJ/mol	Joback Method
hvap	67.15	kJ/mol	Joback Method
log10ws	-1.03		Crippen Method
logp	0.592		Crippen Method
mcvol	165.670	ml/mol	McGowan Method
pc	4103.88	kPa	Joback Method
rinpol	1478.00		NIST Webbook
tb	451.89	K	Joback Method
tc	622.06	K	Joback Method
tf	248.19	K	Joback Method
vc	0.668	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	348.43	J/molxK	451.89	Joback Method
cpg	362.69	J/molxK	480.25	Joback Method
cpg	376.35	J/molxK	508.61	Joback Method
cpg	389.41	J/molxK	536.97	Joback Method
cpg	401.88	J/molxK	565.33	Joback Method
cpg	413.75	J/molxK	593.69	Joback Method
cpg	425.04	J/molxK	622.06	Joback Method

## Sources

<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=C115242&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C115242&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/47-799-4/2-2-Bis-ethylsulfonyl-propane.pdf>

Generated by Cheméo on 2024-04-30 21:01:12.171726807 +0000 UTC m=+16800121.092304124.

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