

# 3-[2-(2-Hydroxyethoxy)ethoxy]propanenitrile

<b>Other names:</b>	Propanenitrile, 3-[2-(2-hydroxyethoxy)ethoxy]-
<b>Inchi:</b>	InChI=1S/C7H13NO3/c8-2-1-4-10-6-7-11-5-3-9/h9H,1,3-7H2
<b>InchiKey:</b>	SMPHEDZQJBZERC-UHFFFAOYSA-N
<b>Formula:</b>	C7H13NO3
<b>SMILES:</b>	N#CCCOCCOCCO
<b>Mol. weight [g/mol]:</b>	159.18
<b>CAS:</b>	10143-54-1

## Physical Properties

Property code	Value	Unit	Source
gf	-205.58	kJ/mol	Joback Method
hf	-439.60	kJ/mol	Joback Method
hfus	21.86	kJ/mol	Joback Method
hvap	63.15	kJ/mol	Joback Method
log10ws	-0.06		Crippen Method
logp	-0.074		Crippen Method
mcvol	128.480	ml/mol	McGowan Method
pc	2899.85	kPa	Joback Method
tb	598.66	K	Joback Method
tc	775.52	K	Joback Method
tf	338.92	K	Joback Method
vc	0.508	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.39	J/mol×K	598.66	Joback Method
cpg	329.46	J/mol×K	628.14	Joback Method
cpg	338.20	J/mol×K	657.61	Joback Method
cpg	346.58	J/mol×K	687.09	Joback Method
cpg	354.60	J/mol×K	716.57	Joback Method
cpg	362.27	J/mol×K	746.04	Joback Method
cpg	369.57	J/mol×K	775.52	Joback Method

# Sources

<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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C10143541&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10143541&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>h vap:</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>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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