

Glutaraldehyde

Other names:

Pentanedial
Glutaral
Aldesan
Alhydex
Cidex
Glutardialdehyde
Glutaric acid dialdehyde
Glutaric aldehyde
Glutaric dialdehyde
Hospex
Sonacide
1,5-Pentanedial
1,5-Pentanedione
component of Cidex
Glutaraldehyd
Glutarol
NCI-C55425
Ucarcide
Aqucar
Glutarex 28
Relugan GT
Relugan GT 50
Sporicidin
Cidex 7
Ucarcide 250
Relugan GTW
Glutaclean
Sterihyde
1,3-Diformylpropane
Coldcide-25 microbicide
Glutaralum
Gluteraldehyde
Novaruca
Pentane-1,5-dial
Potentiated acid glutaraldehyde
Veruca-sep
NSC 13392

Inchi:

InChI=1S/C5H8O2/c6-4-2-1-3-5-7/h4-5H,1-3H2

InchiKey:

SXRSQZLOMIGNAQ-UHFFFAOYSA-N

Formula:

C5H8O2

SMILES: O=CCCCC=O
Mol. weight [g/mol]: 100.12
CAS: 111-30-8

Physical Properties

Property code	Value	Unit	Source
gf	-207.82	kJ/mol	Joback Method
hf	-317.69	kJ/mol	Joback Method
hfus	13.28	kJ/mol	Joback Method
hvap	40.16	kJ/mol	Joback Method
log10ws	-0.48		Crippen Method
logp	0.554		Crippen Method
mcvol	84.450	ml/mol	McGowan Method
pc	4162.33	kPa	Joback Method
tb	374.20	K	NIST Webbook
tc	592.13	K	Joback Method
tf	267.40 ± 0.60	K	NIST Webbook
vc	0.349	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	195.42	J/mol×K	561.96	Joback Method
cpg	189.04	J/mol×K	531.79	Joback Method
cpg	182.37	J/mol×K	501.63	Joback Method
cpg	175.40	J/mol×K	471.46	Joback Method
cpg	168.11	J/mol×K	441.29	Joback Method
cpg	160.50	J/mol×K	411.12	Joback Method
cpg	201.50	J/mol×K	592.13	Joback Method
dvisc	0.0038900	Pa×s	230.11	Joback Method
dvisc	0.0004175	Pa×s	411.12	Joback Method
dvisc	0.0005227	Pa×s	380.95	Joback Method
dvisc	0.0006801	Pa×s	350.78	Joback Method
dvisc	0.0009300	Pa×s	320.62	Joback Method
dvisc	0.0013571	Pa×s	290.45	Joback Method
dvisc	0.0021616	Pa×s	260.28	Joback Method
hvapt	51.40	kJ/mol	364.50	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C111308&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

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

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