

Norbornene, 4,5-epoxy

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C7H8O/c1-2-5-3-4(1)6-7(5)8-6/h1-2,4-7H,3H2

YORASZMZQNWVEF-UHFFFAOYSA-N

C7H8O

C1=CC2CC1C1OC21

108.14

Physical Properties

Property code	Value	Unit	Source
gf	138.54	kJ/mol	Joback Method
hf	-57.81	kJ/mol	Joback Method
hfus	20.66	kJ/mol	Joback Method
hvap	35.24	kJ/mol	Joback Method
log10ws	-1.12		Crippen Method
logp	0.960		Crippen Method
mcvol	78.480	ml/mol	McGowan Method
pc	4266.28	kPa	Joback Method
rinpol	857.00		NIST Webbook
tb	396.95	K	Joback Method
tc	602.53	K	Joback Method
tf	249.08	K	Joback Method
vc	0.312	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	165.25	J/mol×K	396.95	Joback Method
cpg	179.69	J/mol×K	431.21	Joback Method
cpg	192.93	J/mol×K	465.48	Joback Method
cpg	205.08	J/mol×K	499.74	Joback Method
cpg	216.21	J/mol×K	534.01	Joback Method
cpg	226.42	J/mol×K	568.27	Joback Method
cpg	235.79	J/mol×K	602.53	Joback Method
dvisc	0.0002449	Pa×s	249.08	Joback Method
dvisc	0.0003400	Pa×s	273.73	Joback Method

dvisc	0.0004472	Pa×s	298.37	Joback Method
dvisc	0.0005641	Pa×s	323.01	Joback Method
dvisc	0.0006885	Pa×s	347.66	Joback Method
dvisc	0.0008184	Pa×s	372.31	Joback Method
dvisc	0.0009521	Pa×s	396.95	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R511967&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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