

Tricyclo[4.1.1.0(7,8)]oct-3-ene

Inchi:	InChI=1S/C8H10/c1-2-4-6-7-5(3-1)8(6)7/h1-2,5-8H,3-4H2
InchiKey:	YVOQUDDKKWLTVNAV-UHFFFAOYSA-N
Formula:	C8H10
SMILES:	C1=CCC2C3C(C1)C23
Mol. weight [g/mol]:	106.17
CAS:	102575-25-7

Physical Properties

Property code	Value	Unit	Source
gf	233.08	kJ/mol	Joback Method
hf	53.55	kJ/mol	Joback Method
hfus	15.27	kJ/mol	Joback Method
hvap	32.95	kJ/mol	Joback Method
ie	8.81	eV	NIST Webbook
ie	8.30	eV	NIST Webbook
log10ws	-1.74		Crippen Method
logp	1.828		Crippen Method
mcvol	86.700	ml/mol	McGowan Method
pc	3819.82	kPa	Joback Method
tb	392.88	K	Joback Method
tc	596.21	K	Joback Method
tf	233.78	K	Joback Method
vc	0.347	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	174.43	J/mol×K	392.88	Joback Method
cpg	190.64	J/mol×K	426.77	Joback Method
cpg	205.57	J/mol×K	460.66	Joback Method
cpg	219.33	J/mol×K	494.55	Joback Method
cpg	231.99	J/mol×K	528.44	Joback Method
cpg	243.65	J/mol×K	562.32	Joback Method
cpg	254.40	J/mol×K	596.21	Joback Method

dvisc	0.0001254	Pa×s	233.78	Joback Method
dvisc	0.0001973	Pa×s	260.30	Joback Method
dvisc	0.0002855	Pa×s	286.81	Joback Method
dvisc	0.0003881	Pa×s	313.33	Joback Method
dvisc	0.0005030	Pa×s	339.85	Joback Method
dvisc	0.0006277	Pa×s	366.36	Joback Method
dvisc	0.0007604	Pa×s	392.88	Joback Method

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: <https://link.springer.com/article/10.1007/BF02311772>

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C102575257&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

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
ie:	Ionization energy
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

Latest version available from:

<https://www.chemeo.com/cid/25-212-8/Tricyclo-4-1-1-0-7-8-oct-3-ene.pdf>

Generated by Cheméo on 2025-12-23 06:33:05.834039692 +0000 UTC m=+6219783.364080346.

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