

7-Methyl-3-methyleneoct-6-enal

Inchi:	InChI=1S/C10H16O/c1-9(2)5-4-6-10(3)7-8-11/h5,8H,3-4,6-7H2,1-2H3
InchiKey:	ODULZPPCXSTHDT-UHFFFAOYSA-N
Formula:	C10H16O
SMILES:	C=C(CC=O)CCC=C(C)C
Mol. weight [g/mol]:	152.24

Physical Properties

Property code	Value	Unit	Source
hf	-164.50	kJ/mol	Cheméo Relay (1.0)
hfus	20.25	kJ/mol	Joback Method
hvap	57.57	kJ/mol	Cheméo Relay (1.0)
log10ws	-2.63		Cheméo Relay (1.0)
logp	2.878		Crippen Method
mcvol	144.730	ml/mol	McGowan Method
rinpol	1146.80		NIST Webbook
tb	478.57	K	Cheméo Relay (1.0)
tf	242.89	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	308.38	J/mol×K	477.46	Joback Method
cpg	322.01	J/mol×K	508.50	Joback Method
cpg	334.96	J/mol×K	539.54	Joback Method
cpg	347.25	J/mol×K	570.58	Joback Method
cpg	358.90	J/mol×K	601.61	Joback Method
cpg	369.96	J/mol×K	632.65	Joback Method
cpg	380.46	J/mol×K	663.69	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C55050403&Units=SI>

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

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

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

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

Cheméo Relay (1.0):

Legend

cpg:	Ideal gas heat capacity
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.cheméo.com/cid/75-649-9/7-Methyl-3-methyleneoct-6-enal.pdf>

Generated by Cheméo on 2026-07-21 16:44:42.880247576 +0000 UTC m=+163378.722132985.

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