

PROPANOIC ACID, 2-METHYL-, NONYL ESTER

Inchi:	InChI=1S/C13H26O2/c1-4-5-6-7-8-9-10-11-15-13(14)12(2)3/h12H,4-11H2,1-3H3
InchiKey:	SXMUYNHMPAZLEB-UHFFFAOYSA-N
Formula:	C13H26O2
SMILES:	CCCCCCCCCOC(=O)C(C)C
Mol. weight [g/mol]:	214.35

Physical Properties

Property code	Value	Unit	Source
af	0.6947		Cheméo Relay (1.0)
hf	-631.18	kJ/mol	Cheméo Relay (1.0)
hfus	28.69	kJ/mol	Joback Method
hvap	63.63	kJ/mol	Cheméo Relay (1.0)
ie	9.57	eV	Cheméo Relay (1.0)
log10ws	-4.33		Cheméo Relay (1.0)
logp	3.936		Crippen Method
mcvol	201.470	ml/mol	McGowan Method
pc	1718.88	kPa	Joback Method
rinpol	1426.00		NIST Webbook
rinpol	1430.00		NIST Webbook
rinpol	1427.00		NIST Webbook
rinpol	1426.00		NIST Webbook
tb	502.42	K	Cheméo Relay (1.0)
tc	683.14	K	Cheméo Relay (1.0)
tf	237.34	K	Cheméo Relay (1.0)
vc	0.781	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	515.10	J/mol×K	572.69	Joback Method
cpg	531.74	J/mol×K	601.30	Joback Method
cpg	547.70	J/mol×K	629.91	Joback Method
cpg	563.00	J/mol×K	658.53	Joback Method
cpg	577.64	J/mol×K	687.14	Joback Method

cpg	591.64	J/mol×K	715.75	Joback Method
cpg	605.00	J/mol×K	744.36	Joback Method
dvisc	0.0040106	Pa×s	293.43	Joback Method
dvisc	0.0016218	Pa×s	339.97	Joback Method
dvisc	0.0008156	Pa×s	386.52	Joback Method
dvisc	0.0004755	Pa×s	433.06	Joback Method
dvisc	0.0003078	Pa×s	479.60	Joback Method
dvisc	0.0002152	Pa×s	526.15	Joback Method
dvisc	0.0001594	Pa×s	572.69	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C10522346&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.chemeo.com/doc/models/crippen_log10ws

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
rinpol:	Non-polar retention indices
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/48-535-5/PROPANOIC-ACID-2-METHYL-NONYL-ESTER.pdf>

Generated by Cheméo on 2026-07-22 00:10:41.824459252 +0000 UTC m=+190137.666344644.

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