

1-DECANOL, 2-METHYL-

Other names:	2-methyl-1-decanol 2-methyldecan-1-ol
Inchi:	InChI=1S/C11H24O/c1-3-4-5-6-7-8-9-11(2)10-12/h11-12H,3-10H2,1-2H3
InchiKey:	JZEUFFFBEMAJHS-UHFFFAOYSA-N
Formula:	C11H24O
SMILES:	CCCCCCCCC(C)CO
Mol. weight [g/mol]:	172.31

Physical Properties

Property code	Value	Unit	Source
af	0.7606		Cheméo Relay (1.0)
gf	-97.52	kJ/mol	Joback Method
hf	-431.20	kJ/mol	Cheméo Relay (1.0)
hfus	24.81	kJ/mol	Joback Method
hvap	80.77	kJ/mol	Cheméo Relay (1.0)
ie	9.67	eV	Cheméo Relay (1.0)
log10ws	-4.14		Cheméo Relay (1.0)
logp	3.365		Crippen Method
mcvol	171.720	ml/mol	McGowan Method
pc	2115.83	kPa	Joback Method
tb	508.33	K	Cheméo Relay (1.0)
tc	692.13	K	Cheméo Relay (1.0)
tf	251.74	K	Cheméo Relay (1.0)
vc	0.640	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	428.91	J/mol×K	542.82	Joback Method
cpg	443.16	J/mol×K	569.60	Joback Method
cpg	456.84	J/mol×K	596.38	Joback Method
cpg	469.99	J/mol×K	623.16	Joback Method
cpg	482.61	J/mol×K	649.93	Joback Method
cpg	494.72	J/mol×K	676.71	Joback Method

cpg	506.33	J/mol×K	703.49	Joback Method
dvisc	0.0500348	Pa×s	259.55	Joback Method
dvisc	0.0079438	Pa×s	306.76	Joback Method
dvisc	0.0020606	Pa×s	353.97	Joback Method
dvisc	0.0007343	Pa×s	401.18	Joback Method
dvisc	0.0003252	Pa×s	448.40	Joback Method
dvisc	0.0001682	Pa×s	495.61	Joback Method
dvisc	0.0000976	Pa×s	542.82	Joback Method

Sources

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
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18675246&Units=SI

Legend

af:	Acentric Factor
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/79-823-1/1-DECANOL-2-METHYL.pdf>

Generated by Cheméo on 2026-07-21 09:43:54.697055399 +0000 UTC m=+138130.538940866.

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