

(Z)-6-Dodecenal

Other names:	6-dodecenal, Z
Inchi:	InChI=1S/C12H22O/c1-2-3-4-5-6-7-8-9-10-11-12-13/h6-7,12H,2-5,8-11H2,1H3/b7-6-
InchiKey:	RKSXBPZEKYUCII-SREVYHEPSA-N
Formula:	C12H22O
SMILES:	CCCCC=CCCCC=O
Mol. weight [g/mol]:	182.30

Physical Properties

Property code	Value	Unit	Source
gf	30.86	kJ/mol	Joback Method
hf	-259.37	kJ/mol	Joback Method
hfus	29.33	kJ/mol	Joback Method
hvap	48.98	kJ/mol	Joback Method
log10ws	-3.98		Crippen Method
logp	3.882		Crippen Method
mcvol	177.210	ml/mol	McGowan Method
pc	1985.89	kPa	Joback Method
rinpol	1394.00		NIST Webbook
rinpol	1369.00		NIST Webbook
rinpol	1369.00		NIST Webbook
rinpol	1369.00		NIST Webbook
ripol	1753.00		NIST Webbook
ripol	1734.00		NIST Webbook
ripol	1753.00		NIST Webbook
tb	526.78	K	Joback Method
tc	700.00	K	Joback Method
tf	261.92	K	Joback Method
vc	0.705	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	418.84	J/mol×K	526.78	Joback Method
cpg	488.73	J/mol×K	671.13	Joback Method

cpg	476.02	J/mol×K	642.26	Joback Method
cpg	462.70	J/mol×K	613.39	Joback Method
cpg	448.75	J/mol×K	584.52	Joback Method
cpg	434.14	J/mol×K	555.65	Joback Method
cpg	500.86	J/mol×K	700.00	Joback Method
dvisc	0.0002140	Pa×s	526.78	Joback Method
dvisc	0.0002830	Pa×s	482.64	Joback Method
dvisc	0.0003959	Pa×s	438.49	Joback Method
dvisc	0.0005970	Pa×s	394.35	Joback Method
dvisc	0.0009985	Pa×s	350.21	Joback Method
dvisc	0.0019373	Pa×s	306.06	Joback Method
dvisc	0.0046993	Pa×s	261.92	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R265164&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

vc: Critical Volume

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