

(E,E,E)-2,4,6-dodecatrienal

Inchi:	InChI=1S/C12H18O/c1-2-3-4-5-6-7-8-9-10-11-12-13/h6-12H,2-5H2,1H3/b7-6+,9-8+,11-1
InchiKey:	IZNAXSQBWJPYHG-OBWVEWQSSA-N
Formula:	C12H18O
SMILES:	CCCCC=CC=CC=CC=O
Mol. weight [g/mol]:	178.27

Physical Properties

Property code	Value	Unit	Source
gf	191.30	kJ/mol	Joback Method
hf	-24.93	kJ/mol	Joback Method
hfus	29.73	kJ/mol	Joback Method
hvap	48.90	kJ/mol	Joback Method
log10ws	-3.69		Crippen Method
logp	3.434		Crippen Method
mcvol	168.610	ml/mol	McGowan Method
pc	2183.60	kPa	Joback Method
rinpol	1600.00		NIST Webbook
rinpol	1600.00		NIST Webbook
ripol	2216.00		NIST Webbook
ripol	2216.00		NIST Webbook
tb	535.10	K	Joback Method
tc	723.30	K	Joback Method
tf	251.76	K	Joback Method
vc	0.664	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	382.90	J/molxK	535.10	Joback Method
cpg	448.00	J/molxK	691.94	Joback Method
cpg	436.40	J/molxK	660.57	Joback Method
cpg	424.14	J/molxK	629.20	Joback Method
cpg	411.17	J/molxK	597.83	Joback Method
cpg	397.44	J/molxK	566.47	Joback Method

cpg	459.00	J/mol×K	723.30	Joback Method
dvisc	0.0001538	Paxs	535.10	Joback Method
dvisc	0.0002039	Paxs	487.88	Joback Method
dvisc	0.0002874	Paxs	440.65	Joback Method
dvisc	0.0004398	Paxs	393.43	Joback Method
dvisc	0.0007558	Paxs	346.21	Joback Method
dvisc	0.0015411	Paxs	298.98	Joback Method
dvisc	0.0041052	Paxs	251.76	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R236963&Units=SI

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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