

2,4-Decadienal, (E,E)-

Other names:	(E,E)-2,4-Decadienal trans-2, trans-4-Decadienal trans,trans-2,4-Decadien-1-al trans,trans-2,4-Decadienal 2-trans-4-trans-Decadienal 2,4-trans,trans-Decadienal (E,E)-2,4-Decanedienal 2,4-Decadien-1-al, (trans,trans)- (2E,4E)-2,4-Decadienal 2E,4E-Decadienal Deca-2(E),4(E)-dienal (E)-2,(E)-4-decadienal (E,E)-2,4-decadien-1-al (E,E)-Deca-2,4-dienal (2E,4E)-Deca-2,4-dienal 2,4-Decadienal, (2E,4E)- 2,4-(E,E)-Decadienal (E; E)-2,4-decadienal 2,4-Decadienal <E,E> (E,E)-2,4-decadecenal
Inchi:	InChI=1S/C10H16O/c1-2-3-4-5-6-7-8-9-10-11/h6-10H,2-5H2,1H3/b7-6+,9-8+
InchiKey:	JZQKTMZYLNHFPL-BLHCBFLLSA-N
Formula:	C10H16O
SMILES:	CCCCC=CC=CC=O
Mol. weight [g/mol]:	152.23
CAS:	25152-84-5

Physical Properties

Property code	Value	Unit	Source
gf	94.24	kJ/mol	Joback Method
hf	-100.87	kJ/mol	Joback Method
hfus	24.35	kJ/mol	Joback Method
hvap	44.49	kJ/mol	Joback Method
log10ws	-3.00		Crippen Method
logp	2.878		Crippen Method
mcvol	144.730	ml/mol	McGowan Method
pc	2500.00	kPa	Joback Method

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ripol	1826.00		NIST Webbook
ripol	1800.00		NIST Webbook
ripol	1763.00		NIST Webbook
ripol	1798.00		NIST Webbook
ripol	1789.00		NIST Webbook
ripol	1795.00		NIST Webbook
ripol	1793.00		NIST Webbook
ripol	1804.00		NIST Webbook
ripol	1815.00		NIST Webbook
ripol	1780.00		NIST Webbook
ripol	1815.00		NIST Webbook
ripol	1790.00		NIST Webbook
ripol	1821.00		NIST Webbook
tb	485.18	K	Joback Method
tc	669.38	K	Joback Method
tf	234.30	K	Joback Method
vc	0.573	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	309.28	J/molxK	485.18	Joback Method
cpg	322.72	J/molxK	515.88	Joback Method
cpg	335.45	J/molxK	546.58	Joback Method
cpg	347.52	J/molxK	577.28	Joback Method
cpg	358.96	J/molxK	607.98	Joback Method
cpg	369.81	J/molxK	638.68	Joback Method
cpg	380.10	J/molxK	669.38	Joback Method
dvisc	0.0044740	Paxs	234.30	Joback Method
dvisc	0.0018135	Paxs	276.11	Joback Method
dvisc	0.0009322	Paxs	317.93	Joback Method
dvisc	0.0005593	Paxs	359.74	Joback Method
dvisc	0.0003733	Paxs	401.55	Joback Method

dvisc	0.0002689	Paxs	443.37	Joback Method
dvisc	0.0002049	Paxs	485.18	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	388.20	K	1.30	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C25152845&Units=SI
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

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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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