

Dotriacontane, 1-iodo-

Inchi:

InChI=1S/C32H65I/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25

InchiKey:

JXFRLKULJKAXNM-UHFFFAOYSA-N

Formula:

C32H65I

SMILES:

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCI

Mol. weight [g/mol]:

576.76

Physical Properties

Property code	Value	Unit	Source
gf	276.68	kJ/mol	Joback Method
hf	-626.94	kJ/mol	Joback Method
hfus	83.04	kJ/mol	Joback Method
hvap	96.20	kJ/mol	Joback Method
log10ws	-14.17		Crippen Method
logp	13.144		Crippen Method
mcvol	487.560	ml/mol	McGowan Method
pc	537.83	kPa	Joback Method
rinpol	3762.00		NIST Webbook
rinpol	3762.00		NIST Webbook
tb	1024.70	K	Joback Method
tc	1278.71	K	Joback Method
tf	508.46	K	Joback Method
vc	1.915	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1696.72	J/mol×K	1024.70	Joback Method
cpg	1821.87	J/mol×K	1236.37	Joback Method
cpg	1799.59	J/mol×K	1194.04	Joback Method
cpg	1776.12	J/mol×K	1151.70	Joback Method
cpg	1751.28	J/mol×K	1109.37	Joback Method
cpg	1724.87	J/mol×K	1067.03	Joback Method
cpg	1843.15	J/mol×K	1278.71	Joback Method
dvisc	0.0000116	Pa×s	1024.70	Joback Method

dvisc	0.0000161	Pa×s	938.66	Joback Method
dvisc	0.0000239	Pa×s	852.62	Joback Method
dvisc	0.0000388	Pa×s	766.58	Joback Method
dvisc	0.0000712	Pa×s	680.54	Joback Method
dvisc	0.0001556	Pa×s	594.50	Joback Method
dvisc	0.0004434	Pa×s	508.46	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U406324&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

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
mccvol:	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/72-075-9/Dotriacontane-1-iodo.pdf>

Generated by Cheméo on 2025-12-05 23:53:44.230248456 +0000 UTC m=+4727021.760289111.

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