tetracosane, 1-iodo-

Inchi: InChI=1S/C24H49I/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-2
InchiKey: BGKYLPDRHHSYFV-UHFFFAOYSA-N
Formula: C24H49I
SMILES: CCCCCCCCCCCCCCCCCCCCCCCCI
Mol. weight [g/mol]: 464.55
CAS: 62127-55-3

Physical Properties

Property code	Value	Unit	Source
af	1.0392		Cheméo Relay (1.0)
gf	209.32	kJ/mol	Joback Method
hf	-485.95	kJ/mol	Cheméo Relay (1.0)
hfus	62.32	kJ/mol	Joback Method
hvap	137.64	kJ/mol	Cheméo Relay (1.0)
ie	9.57	eV	Cheméo Relay (1.0)
log10ws	-9.98		Cheméo Relay (1.0)
logp	10.024		Crippen Method
mcvol	374.840	ml/mol	McGowan Method
pc	796.18	kPa	Joback Method
tb	648.62	K	Cheméo Relay (1.0)
tc	835.15	K	Cheméo Relay (1.0)
tf	325.51	K	Cheméo Relay (1.0)
vc	1.472	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1169.50	J/mol×K	841.66	Joback Method
cpg	1283.18	J/mol×K	1031.34	Joback Method
cpg	1266.54	J/mol×K	999.73	Joback Method
cpg	1249.05	J/mol×K	968.11	Joback Method
cpg	1230.66	J/mol×K	936.50	Joback Method
cpg	1211.31	J/mol×K	904.89	Joback Method
cpg	1190.95	J/mol×K	873.27	Joback Method

dvisc	0.0001315	Pa×s	629.98	Joback Method
dvisc	0.0000409	Pa×s	841.66	Joback Method
dvisc	0.0000562	Pa×s	771.10	Joback Method
dvisc	0.0000823	Pa×s	700.54	Joback Method
dvisc	0.0013787	Pa×s	418.30	Joback Method
dvisc	0.0002362	Pa×s	559.42	Joback Method
dvisc	0.0005024	Pa×s	488.86	Joback Method

Sources

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=C62127553&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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

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