

2,4,7,9-TETRAMETHYL-5-DECYNE-4,7-DIOL

Other names:	1,4-Diisobutyl-1,4-dimethylbutynediol 2,4,7,9-Tetramethyl-5-decyne-4,7-diol 2,4,7,9-Tetremathyl-5-decyne-4,7-diol 2,4,7,9-tetramethyldec-5-yne-4,7-diol 5-Decyne-4,7-diol, 2,4,7,9-tetramethyl- NSC 5630 Olfine AK 02 Surfynol 104 Surfynol 104A Surfynol 104BC Surfynol 104E Surfynol 104H Surfynol 104PA Surfynol TG Syrfynol 104 Tetramethyl decynediol
Inchi:	InChI=1S/C14H26O2/c1-11(2)9-13(5,15)7-8-14(6,16)10-12(3)4/h11-12,15-16H,9-10H2,1
InchiKey:	LXOFYPKXCSULTL-UHFFFAOYSA-N
Formula:	C14H26O2
SMILES:	CC(C)CC(C)(O)C#CC(C)(O)CC(C)C
Mol. weight [g/mol]:	226.36

Physical Properties

Property code	Value	Unit	Source
af	0.7540		Cheméo Relay (1.0)
gf	-3.04	kJ/mol	Joback Method
hf	-373.12	kJ/mol	Cheméo Relay (1.0)
hfus	21.44	kJ/mol	Joback Method
hvap	94.50	kJ/mol	Cheméo Relay (1.0)
ie	9.41	eV	Cheméo Relay (1.0)
log10ws	-3.17		Cheméo Relay (1.0)
logp	2.584		Crippen Method
mcvol	211.260	ml/mol	McGowan Method
pc	2135.43	kPa	Joback Method
rinpol	1407.30		NIST Webbook
rinpol	1407.30		NIST Webbook
tb	520.77	K	Cheméo Relay (1.0)

tc	713.47	K	Cheméo Relay (1.0)
tf	320.29	K	Cheméo Relay (1.0)
vc	0.783	m ³ /kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	613.69	J/mol×K	705.74	Joback Method
cpg	627.85	J/mol×K	736.88	Joback Method
cpg	641.23	J/mol×K	768.03	Joback Method
cpg	653.90	J/mol×K	799.17	Joback Method
cpg	665.89	J/mol×K	830.31	Joback Method
cpg	677.27	J/mol×K	861.45	Joback Method
cpg	688.09	J/mol×K	892.60	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C126863&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
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):	

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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