1,8,11,14-Heptadecatetraene, (Z,Z,Z)-

Other names: (Z,Z,Z)-1,8,11,14-Heptadecatetraene
(Z,Z,Z)-heptadeca-1,8,11,14-tetraene
Inchi: InChI=1S/C17H28/c1-3-5-7-9-11-13-15-17-16-14-12-10-8-6-4-2/h3,6,8,12,14-15,17H,1,4
InchiKey: JXRNMQDTJAQLAQ-UTZXOHNXSA-N
Formula: C17H28
SMILES: C=CCCCCCC=CCC=CCC=CCC
Mol. weight [g/mol]: 232.40
CAS: 10482-53-8

Physical Properties

Property code	Value	Unit	Source
gf	420.76	kJ/mol	Joback Method
hf	82.88	kJ/mol	Joback Method
hfus	39.11	kJ/mol	Joback Method
hvap	52.64	kJ/mol	Joback Method
log10ws	-6.35		Crippen Method
logp	5.982		Crippen Method
mcvol	233.190	ml/mol	McGowan Method
pc	1421.85	kPa	Joback Method
rinpol	1675.70		NIST Webbook
rinpol	1657.00		NIST Webbook
rinpol	1657.00		NIST Webbook
rinpol	1657.00		NIST Webbook
rinpol	1664.00		NIST Webbook
rinpol	1664.00		NIST Webbook
ripol	1867.00		NIST Webbook
ripol	1882.00		NIST Webbook
ripol	1861.00		NIST Webbook
ripol	1867.00		NIST Webbook
ripol	1861.00		NIST Webbook
ripol	1882.00		NIST Webbook
ripol	1882.00		NIST Webbook
ripol	1867.00		NIST Webbook
ripol	1882.00		NIST Webbook
tb	597.52	K	Joback Method
tc	775.67	K	Joback Method
tf	264.35	K	Joback Method

vc	0.908	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	588.27	J/mol×K	597.52	Joback Method
cpg	606.51	J/mol×K	627.21	Joback Method
cpg	623.83	J/mol×K	656.90	Joback Method
cpg	640.30	J/mol×K	686.60	Joback Method
cpg	655.97	J/mol×K	716.29	Joback Method
cpg	670.89	J/mol×K	745.98	Joback Method
cpg	685.13	J/mol×K	775.67	Joback Method
dvisc	0.0037576	Pa×s	264.35	Joback Method
dvisc	0.0011716	Pa×s	319.88	Joback Method
dvisc	0.0005157	Pa×s	375.41	Joback Method
dvisc	0.0002804	Pa×s	430.94	Joback Method
dvisc	0.0001753	Pa×s	486.46	Joback Method
dvisc	0.0001206	Pa×s	541.99	Joback Method
dvisc	0.0000890	Pa×s	597.52	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C10482538&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

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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume