

2,5,5-trimethyl-4-thiaheptane

Inchi:	InChI=1S/C9H20S/c1-6-9(4,5)10-7-8(2)3/h8H,6-7H2,1-5H3
InchiKey:	XLJGGWPJGCBGHK-UHFFFAOYSA-N
Formula:	C9H20S
SMILES:	CCC(C)(C)SCC(C)C
Mol. weight [g/mol]:	160.32

Physical Properties

Property code	Value	Unit	Source
gf	58.42	kJ/mol	Joback Method
hf	-201.25	kJ/mol	Joback Method
hfus	12.26	kJ/mol	Joback Method
hvap	40.76	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	3.564		Crippen Method
mcvol	154.020	ml/mol	McGowan Method
pc	2407.64	kPa	Joback Method
rinpol	1047.00		NIST Webbook
rinpol	1047.00		NIST Webbook
rinpol	1047.00		NIST Webbook
tb	470.43	K	Joback Method
tc	670.37	K	Joback Method
tf	213.01	K	Joback Method
vc	0.577	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	333.15	J/mol×K	470.43	Joback Method
cpg	349.79	J/mol×K	503.75	Joback Method
cpg	365.57	J/mol×K	537.08	Joback Method
cpg	380.51	J/mol×K	570.40	Joback Method
cpg	394.65	J/mol×K	603.72	Joback Method
cpg	408.01	J/mol×K	637.04	Joback Method
cpg	420.64	J/mol×K	670.37	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R155696&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

Legend

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
hvac:	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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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