

3-[(1-methyl-2-oxopropyl)-trithio]-2-pentanone

Inchi:	InChI=1S/C9H16O2S3/c1-5-9(7(3)11)13-14-12-8(4)6(2)10/h8-9H,5H2,1-4H3
InchiKey:	YEWQLPUXIQJASC-UHFFFAOYSA-N
Formula:	C9H16O2S3
SMILES:	CCC(SSSC(C)C(C)=O)C(C)=O
Mol. weight [g/mol]:	252.42

Physical Properties

Property code	Value	Unit	Source
gf	-138.46	kJ/mol	Joback Method
hf	-339.20	kJ/mol	Joback Method
hfus	27.61	kJ/mol	Joback Method
hvap	68.80	kJ/mol	Joback Method
log10ws	-4.01		Crippen Method
logp	3.361		Crippen Method
mvol	189.860	ml/mol	McGowan Method
pc	2802.44	kPa	Joback Method
rinpol	1805.00		NIST Webbook
tb	718.52	K	Joback Method
tc	960.85	K	Joback Method
tf	364.25	K	Joback Method
vc	0.702	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	473.70	J/molxK	718.52	Joback Method
cpg	486.78	J/molxK	758.91	Joback Method
cpg	498.79	J/molxK	799.30	Joback Method
cpg	509.73	J/molxK	839.69	Joback Method
cpg	519.59	J/molxK	880.07	Joback Method
cpg	528.38	J/molxK	920.46	Joback Method
cpg	536.09	J/molxK	960.85	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=R223051&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.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
mccol:	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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