

Table 1**Crystal data and structure refinement details for racemic-D-methionyl-D-methionine**

Identification code	racemic-D-methionyl-D-methionine
Sample	Single crystal
Empirical formula	C ₁₀ H ₂₀ N ₂ O ₃ S ₂
Formula weight	280.40
Temperature/K	149.95(10)
Crystal system	Monoclinic
Space group	<i>P</i> 2 ₁ / <i>c</i>
a/Å	5.33170(10)
b/Å	20.4441(2)
c/Å	12.34640(10)
α/°	90
β/°	95.5590(10)
γ/°	90
Volume/Å ³	1339.45(3)
Z, Z'	4, 1
ρ _{calc} g/cm ³	1.390
μ/mm ⁻¹	3.616
F(000)	600.0
Crystal size/mm ³	0.07 × 0.07 × 0.03
Radiation	CuKα ($\lambda = 1.54184$)
2Θ range for data collection/°	8.396 to 140.524
Index ranges	-6 ≤ h ≤ 6, -24 ≤ k ≤ 24, -15 ≤ l ≤ 15
Reflections collected	14958
Independent reflections	2536 [R _{int} = 0.0379, R _{sigma} = 0.0209]
Data/restraints/parameters	2536/0/172
Goodness-of-fit on F ²	1.046
Final R indexes [I>=2σ (I)]	R ₁ = 0.0260, wR ₂ = 0.0699
Final R indexes [all data]	R ₁ = 0.0283, wR ₂ = 0.0727
Largest diff. peak/hole / e Å ⁻³	0.32/-0.27
CCDC deposition number	2004931

Table 2**Crystal data and structure refinement details for racemic-D-methionyl-L-methionine**

Identification code	racemic-D-methionyl-L-methionine
Sample	Powder
Empirical formula	C ₁₀ H ₂₀ N ₂ O ₃ S ₂
Formula weight	280.40
Temperature/K	293
Crystal system	Monoclinic
Space group	<i>P</i> 2 ₁ / <i>c</i>
a/Å	16.5974(3)
b/Å	5.3147(1)
c/Å	16.0288(3)
α/°	90
β/°	109.3409(13)
γ/°	90
Volume/Å ³	1334.11(5)
Zero point/°	0.0038(4)
Z, Z'	4, 1
ρ _{calc} g/cm ³	1.396
2θ range/°	4-60
No. of unique reflections	396
No. of parameters	42
<i>R</i> factors	<i>R</i> _{wp} (Pawley) = 1.83% <i>R</i> _{wp} (Rietveld) = 3.74%
CCDC deposition number	2004932